01481000 BRANDYWINE CREEK AT CHADDS FORD, PA (Pennsylvania Water-Quality Network Station)

LOCATION.--Lat 39°52'11", long 75°35'37", Delaware County, Hydrologic Unit 02040205, on left bank 27 ft upstream from Penn Central Railroad bridge at Chadds Ford, 150 ft upstream from Harvey Run, and 1,200 ft downstream from highway bridge on U.S. Highway 1.

DRAINAGE AREA.--287 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1911 to September 1953, October 1962 to current year. Prior to October 1911, monthly discharge only, published in WSP 1302.

REVISED RECORDS.--WSP 756: Drainage area. WSP 1202: 1917-18(M), 1919-20, 1922-31(M), 1932-33, 1934(M), 1936, 1938(P), 1939(M), 1942, 1944-46(M), WDR PA-98-1: 1996-97 (M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 150.45 ft above National Geodetic Vertical Datum of 1929. Prior to May 21, 1927, nonrecording gage at same site and datum.

REMARKS.—Records good except those for estimated daily discharges, which are fair. Flow regulated since November 1973 by Marsh Creek Reservoir (station 01480684) about 17 mi upstream. Satellite and landline telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 19, 1955, reached a stage of 14.64 ft, gage datum, discharge, about 16,400 ft³/s.

			Discinic	GE, COBIC I	LETTERSE		AN VALUES		or to ber in	SWIDER 2002	,	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	95	102	e80	231	119	216	219	172	128	55	106
2	115	98	101	e85	220	114	190	280	160	124	55	158
3	108	101	97	e85	175	665	176	817	149	118	53	91
3 4	104	98	97	e90	164	281	178	275	145	112	172	73
5	101	98	97	e90	146	178	172	217	156	110	67	65
6	93	96	98	e100	139	153	161	195	185	101	57	59
7	94	93	95	298	151	147	157	186	1240	98	54	54
8	92	98	103	193	150	152	151	177	291	103	50	52
9	95	94	194	144	145	139	154	202	201	103	48	51
10	95	95	142	136	144	161	169	231	182	115	47	49
11	97	93	122	324	151	140	157	185	171	107	44	47
12	95	91	113	458	141	127	151	180	161	93	43	42
13	97	91	113	187	138	148	151	371	159	89	43	39
14	95	92	132	150	128	171	163	1010	299	89	40	39
15	125	92	175	134	130	153	196	350	346	101	40	42
16	109	96	134	128	135	139	159	248	247	95	38	78
17	104	95	119	123	131	137	149	217	201	85	37	67
18	102	95	196	126	126	225	140	925	185	77	36	55
19	100	92	168	122	124	229	140	560	198	74	37	49
20	101	99	132	128	124	522	166	307	188	74	39	51
21	101	99	117	130	148	681	142	260	162	75	37	50
22	98	96	112	126	137	270	170	235	149	72	33	49
23	93	95	110	128	126	209	172	216	141	69	36	47
24	94	95	157	498	124	186	145	201	144	74	41	54
25	102	134	139	659	122	173	148	194	156	72	158	44
26	0.1	0.61	100	0.42	104	1.67	165	105	1 4 1	69		4.1
	91	261	123	243	124	167		185	141		66	41
27	95	139	e100	190	125	453	144	189	139	65	54	371
28	91	113	e95	171	119	258	471	202	197	70	50	287
29	92	105	e90	163		202	393	191	151	70	252	124
30	93	105	e85	159		190	231	183	134	65	125	71
31	95		e80	231		191		171		56	76	
TOTAL	3085	3144	3738	5879	4018	7080	5477	9379	6550	2753	1983	2405
MEAN	99.5	105	121	190	144	228	183	303	218	88.8	64.0	80.2
MAX	125	261	196	659	231	681	471	1010	1240	128	252	371
MIN	91	91	80	80	119	114	140	171	134	56	33	39

e Estimated.

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

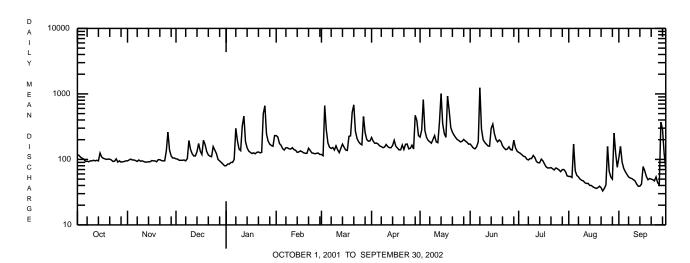
STATIST	CICS OF	MONTHLY MEAN	N DATA F	OR WATER	YEARS 1974	- 2002,	BY WATER	YEAR (WY)	(SINC	E REGULATION)		
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
MEAN MAX	266 924	316 751	453 1634	529 1664	531 1308	657 1713	614 1509	511 1097	376 833	323 1153	229 562	269 906	
(WY)	1997	1997	1997	1979	1979	1994	1983	1989	1975	1975	1996	1979	
MIN (WY)	99.5 2002	105 2002	112 1999	106 1981	144 2002	195 1981	183 2002	249 1999	153 1999	88.8 2002	64.0 2002	80.2 2002	
SUMMARY	STATIS	STICS	FOR	2001 CAL	ENDAR YEAR	F	OR 2002 W	NATER YEAR		WATER YEARS	1974 -	2002	
ANNUAL				111418			55491			400			
ANNUAL HIGHEST		MEAN		305			152			422 714		1984	
	ANNUAL			2500	M 20		1040	T 7		152	T 26	2002	

ANNUAL MEAN	303		132		722	
HIGHEST ANNUAL MEAN					714	1984
LOWEST ANNUAL MEAN					152	2002
HIGHEST DAILY MEAN	2500	Mar 30	1240	Jun 7	10600	Jan 26 1978
LOWEST DAILY MEAN	e 80	Dec 31	33	Aug 22	33	Aug 22 2002
ANNUAL SEVEN-DAY MINIMUM	93	Nov 9	36	Aug 17	36	Aug 17 2002
MAXIMUM PEAK FLOW			2380	Jun 7	a 26900	Sep 17 1999
MAXIMUM PEAK STAGE			5.66	Jun 7	17.15	Sep 17 1999
INSTANTANEOUS LOW FLOW			32	Aug 22	8.4	Sep 13 1980
10 PERCENT EXCEEDS	625		233		800	
50 PERCENT EXCEEDS	202		126		287	
90 PERCENT EXCEEDS	95		54		122	

STA	ATISTICS (OF MONTHLY	MEAN DATA	FOR WATER	YEARS	1911-1953,	1963-1973	, BY WAT	ER YEAR (WY) (PRIO	R TO REGU	JLATION)
	OC'	T NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEZ			348	444	570		530	435	364	309	278	230
MAX				1020	1130		1043	946	1144	802	1089	1050
(W)				1936	1971		1973	1952	1972	1919	1933	1971
MIN				145	214		226	175	149	91.1	82.1	59.4
(W)	r) 1964	4 1942	1966	1966	1934	1931	1963	1926	1963	1963	1930	1932

SUMMARY STATISTICS	WATER YEARS	1911-1953
		1963-1973
ANNUAL MEAN	385	
HIGHEST ANNUAL MEAN	625	1928
	218	1932
HIGHEST DAILY MEAN	9590	Aug 24 1933
LOWEST DAILY MEAN	42	Sep 12 1966
ANNUAL SEVEN-DAY MINIMUM	45	Sep 7 1966
MAXIMUM PEAK FLOW	b 23800	Jun 22 1972
MAXIMUM PEAK STAGE	16.56	Jun 22 1972
INSTANTANEOUS LOW FLOW	4.9	Oct 2 1942
ANNUAL RUNOFF (CFSM)	1.34	
ANNUAL RUNOFF (INCHES)	18.23	
10 PERCENT EXCEEDS	700	
50 PERCENT EXCEEDS	274	
90 PERCENT EXCEEDS	118	

- a From rating curve extended above $13,200~{\rm ft^3/s}$ on basis of area-velocity study at gage height $16.56~{\rm ft}$. b From rating curve extended above $9,000~{\rm ft^3/s}$ on basis of area-velocity study. e Estimated.



01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued (Pennsylvania Water-Quality Network Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963 to current year.

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: October 1965 to current year.

pH: October 1965 to September 1966, December 1971 to current year.

WATER TEMPERATURES: October 1964 to current year.

DISSOLVED OXYGEN: October 1971 to current year.
SUSPENDED-SEDIMENT DISCHARGE: October 1963 to September 1978.

INSTRUMENTATION.--Water-quality monitor since August 1971.

REMARKS.--Specific conductance record rated good except for period Nov. 21-27, May 1-9, and Sept. 23-27, which are fair. pH record rated good. Water temperature record rated fair. Dissolved oxygen record rated good, except for period Aug. 20 to Sept. 3, which is poor. Data collection discontinued during winter months since 1981 water year. Other interruptions in the record were due to malfunctions of the equipment.

EXTREMES FOR PERIOD OF DAILY RECORD.—
SPECIFIC CONDUCTANCE: Maximum, 689 microsiemens, Mar. 6, 2001; minimum, 42 microsiemens, Nov. 26, 1979.
pH: Maximum, 9.8, Apr. 9, 1975; minimum, 6.1, Feb. 22, 1976.
WATER TEMPERATURE: Maximum, 31.0°C, July 4, 2002; minimum, 0.0°C, many days during winters.
DISSOLVED OXYGEN: Maximum, 17.1 mg/L, Dec. 5, 1976; minimum, 3.0 mg/L, June 21, 1984.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	AGENCY COL- LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)		SPE- CIFIC CON- DUCT- ANCE (µS/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	COLI- FORM, FECAL, 0.7 µM-MF (COLS./ 100 ML) (31625)
MAR 2002									
05	1515	1028	1028	171	13.2	7.7	284	5.2	31
18	1520	1028	1028	244	11.4	7.7	319	7.7	155
APR									
23	1700	1028	1028	159	11.0	7.7	331	14.8	24
MAY									
01	1600	1028	1028	212	11.1	7.5	305	16.7	52
14	1510	1028	1028	1045	8.5	7.2	180	16.9	4800
30	1230	1028	1028	180	11.6	7.9	323	22.4	58
JUN 10	1036	1028	1028	182	7.2	7.3	305	21.3	212
17	1500	1028	1028	191	9.3	7.3	298	21.3	78
25	1540	1028	1028	180	9.7	8.1	330	27.3	85
JUL	1340	1020	1020	100	5.7	0.1	330	27.5	03
08	1515	1028	1028	106	10.7	8.3	369	26.1	40
15	1410	1028	1028	102	9.3	8.1	372	25.1	31
23	1515	1028	1028	68	10.7	8.5	391	30.0	49
AUG									
06	1500	1028	1028	56	9.5	7.7	319	27.8	55
14	1450	1028	1028	38	10.5	8.3	421	28.1	28
20	1540	1028	1028	39	9.5	8.1	437	28.6	29
SEP									
12	1520	1028	1028	40	11.4	8.3	396	23.0	12
23	1510	1028	1028	45	11.4	8.4	398	24.0	41

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued (Pennsylvania Water-Quality Network Station)

PERIOD OF RECORD.--April 2002 to current year.

REMARKS.--Other data for the Water-Quality Network can be found on pages 410-425.

COOPERATION.—Samples were collected as part of the Pennsylvania Department of Environmental Protection Water-Quality Network (WQN) with cooperation from the Pennsylvania Department of Environmental Protection.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date APR 2002 29 JUN 12 AUG 20	Time 1110 1030 1330	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028) 9813 9813	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) 377 162	SAM-PLING METHOD, CODES (82398)	OXYGEN, DIS- SOLVED (MG/L) (00300) 10.8 7.7	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400) 7.6 7.5	SPE- CIFIC CON- DUCT- ANCE (µS/CM) (00095) 220 308 419	TEMPER-ATURE WATER (DEG C) (00010) 14.0 23.8 27.8	HARD- NESS TOTAL (MG/L AS CACO3) (00900) 74 100	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA) (00916) 18.6 25.2	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS MG) (00927) 6.7 10.2	ANC WATER UNFLTRD FET LAB (MG/L AS CACO3) (00417) 48 66	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940) 20.6 31.0
Date	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	RESIDUE AT 105 DEG. C, DIS- SOLVED (MG/L) (00515)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/LAS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)
APR 2002 29 JUN 12 AUG 20	15.8 23.7 31.3	186 226 302	<2 <2 2	.100 .070 <.020	2.20 2.83 1.52	.030	2.4 3.5 2.1	.037 .099 .102	.120 .150 .140	5.1 3.9 4.3	5.5 4.1 4.6	2.3 1.6 1.4	20 11 <10
Date	FECAL COLI- FORM, MFC MF, WATER (COL/ 100 ML) (31616)	ARSENIC DIS- SOLVED (µG/L AS AS) (01000)	ARSENIC TOTAL (µG/L AS AS) (01002)	CADMIUM DIS- SOLVED (µG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (µG/L AS CD) (01027)	CHRO-MIUM, HEXA-VALENT, DIS. (µG/L AS CR) (01032)	CHRO-MIUM, TOTAL RECOV-ERABLE (µG/L AS CR)	COPPER, DIS- SOLVED (µG/L AS CU) (01040)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU) (01042)	IRON, DIS- SOLVED (µG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (µG/L AS FE) (01045)	LEAD, DIS- SOLVED (µG/L AS PB) (01049)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB) (01051)
APR 2002 29 JUN 12 AUG	920 80	<4.0 <4.0	<4 <4	<.20	<.2	<1 <1	<4 <4	<4 <4	<4 <4	100 80	850 360	<1.0 <1.0	1.7
20	50	<4.0	<4	<.20	<.2	<1	<4	<4	<4	80	140	<1.0	<1.0
	Date	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	TOTAL RECOV- ERABLE (µG/L AS MN)	MERCURY DIS- SOLVED (μG/L AS HG) (71890)	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG) (71900)	NICKEL, DIS- SOLVED (µG/L AS NI) (01065)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI) (01067)	SELE- NIUM, DIS- SOLVED (µG/L AS SE) (01145)	SILVER, DIS- SOLVED (µG/L AS AG) (01075)	SILVER, TOTAL RECOV- ERABLE (µG/I AS AG) (01077)	ZINC, DIS- SOLVED (µG/I AS ZN) (01090)	ZINC, TOTAL RECOV- ERABLE ((µG/: AS ZN) (01092)	
	APR 2002 29 JUN	NESE, DIS- SOLVED (µG/L AS MN) (01056)	NESE, TOTAL RECOV- ERABLE (µG/L AS MN) (01055)	DIS- SOLVED (µG/L AS HG) (71890)	TOTAL RECOV- ERABLE (µG/L AS HG) (71900)	DIS- SOLVED (µG/L AS NI) (01065)	TOTAL RECOV- ERABLE (µG/L AS NI) (01067)	NIUM, DIS- SOLVED (µG/L AS SE) (01145)	DIS- SOLVED (µG/L AS AG) (01075)	TOTAL RECOV- ERABLE (µG/I AS AG) (01077)	DIS- SOLVED (µG/I AS ZN) (01090)	TOTAL RECOV- ERABLE (µG/: AS ZN) (01092)	
	APR 2002 29	NESE, DIS- SOLVED (µG/L AS MN) (01056)	NESE, TOTAL RECOV- ERABLE (µG/L AS MN) (01055)	DIS- SOLVED (µG/L AS HG) (71890)	TOTAL RECOV- ERABLE (µG/L AS HG) (71900)	DIS- SOLVED (µG/L AS NI) (01065)	TOTAL RECOV- ERABLE (µG/L AS NI) (01067)	NIUM, DIS- SOLVED (µG/L AS SE) (01145)	DIS- SOLVED (µG/L AS AG) (01075)	TOTAL RECOV- ERABLE (µG/I AS AG) (01077)	DIS- SOLVED (µG/I AS ZN) (01090)	TOTAL RECOV- ERABLE (

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	374	333	351	370	353	358	336	329	331			
2	377 383	371 372	374 376	383	348	361	335	328	332			
4	387	377	382	359	345	350						
5	383	361	373	365	346	353						
6	372	360	364	374	342	351						
7 8	364 364	345 345	354 356	360 371	342 354	355 360						
9	371	362	367	377	367	371						
10	367	353	361	383	365	371						
11	357	350	353	376	366	371						
12 13	358 349	349 338	354 343	374 377	359 358	367 365						
14	350	342	346	381	356	361						
15	348	338	343	361	348	355						
16	351	333	343	364	347	353						
17 18	350 349	333 329	340 337	369 387	347 353	354 366						
19	360	337	345	358	342	351						
20	343	326	334	350	343	346						
21 22	349 352	340 342	344 348	355 352	343 341	347 346						
23	364	351	354	350	340	345						
24	358	342	349	352	341	347						
25	377	347	359	397	340	347						
26	373	358	366	406	324	365						
27 28	377 379	361 366	367 372	334 316	285 289	296 304						
29	384	367	376	326	316	323						
30	368	357	362	330	324	326						
31	366	355	360									
MONTH	387	326	357	406	285	351						
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY			MEAN	MAX		MEAN	MAX		MEAN	MAX		MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1			MEAN	358	MARCH 338	344	324	APRIL	316	310	MAY 291	302
1 2 3		FEBRUARY	 	358 372 360	MARCH 338 345 240	344 350 277	324 319 329	309 308 302	316 315 309	310 340 303	MAY 291 303 218	302 320 250
1 2 3 4	 	FEBRUARY 	 	358 372 360 277	338 345 240 237	344 350 277 258	324 319 329 321	309 308 302 311	316 315 309 314	310 340 303 286	MAY 291 303 218 261	302 320 250 279
1 2 3 4 5		FEBRUARY		358 372 360 277 307	338 345 240 237 277	344 350 277 258 295	324 319 329 321 333	309 308 302 311 312	316 315 309 314 318	310 340 303 286 313	MAY 291 303 218 261 285	302 320 250 279 303
1 2 3 4 5		FEBRUARY		358 372 360 277 307	MARCH 338 345 240 237 277 306	344 350 277 258 295	324 319 329 321 333	309 308 302 311 312 309	316 315 309 314 318	310 340 303 286 313	MAY 291 303 218 261 285	302 320 250 279 303
1 2 3 4 5		FEBRUARY		358 372 360 277 307	338 345 240 237 277	344 350 277 258 295	324 319 329 321 333	309 308 302 311 312	316 315 309 314 318	310 340 303 286 313	MAY 291 303 218 261 285	302 320 250 279 303
1 2 3 4 5 6 7 8		FEBRUARY		358 372 360 277 307 323 354 347 347	338 345 240 237 277 306 323 332 326	344 350 277 258 295 315 326 340 336	324 319 329 321 333 319 327 334 337	309 308 302 311 312 309 308 308 310	316 315 309 314 318 314 315 316 317	310 340 303 286 313 327 327 338 362	MAY 291 303 218 261 285 312 303 317 321	302 320 250 279 303 319 321 323 338
1 2 3 4 5 6 7 8 9		FEBRUARY		358 372 360 277 307 323 354 347 347 344	338 345 240 237 277 306 323 332 326 321	344 350 277 258 295 315 326 340 336 329	324 319 329 321 333 319 327 334 337 338	309 308 302 311 312 309 308 308 310 320	316 315 309 314 318 314 315 316 317 326	310 340 303 286 313 327 327 338 362 367	291 303 218 261 285 312 303 317 321 323	302 320 250 279 303 319 321 323 338 341
1 2 3 4 5 6 7 8 9 10		FEBRUARY		358 372 360 277 307 323 354 347 347 344	338 345 240 237 277 306 323 332 326 321	344 350 277 258 295 315 326 340 336 329	324 319 329 321 333 319 327 334 337 338	309 308 302 311 312 309 308 310 320	316 315 309 314 318 314 315 316 317 326	310 340 303 286 313 327 327 338 362 367	291 303 218 261 285 312 303 317 321 323	302 320 250 279 303 319 321 323 338 341
1 2 3 4 5 6 7 8 9		FEBRUARY		358 372 360 277 307 323 354 347 347 344	338 345 240 237 277 306 323 332 326 321	344 350 277 258 295 315 326 340 336 329	324 319 329 321 333 319 327 334 337 338	309 308 302 311 312 309 308 308 310 320	316 315 309 314 318 314 315 316 317 326	310 340 303 286 313 327 327 338 362 367	291 303 218 261 285 312 303 317 321 323	302 320 250 279 303 319 321 323 338 341
1 2 3 4 5 6 7 8 9 10 11 12 13 14		FEBRUARY		358 372 360 277 307 323 354 347 347 344 358 358 352	MARCH 338 345 240 237 277 306 323 332 326 321 317 323 326 322	344 350 277 258 295 315 326 340 336 329 327 327 337 331	324 319 329 321 333 319 327 334 337 338 344 333 339 339	309 308 302 311 312 309 308 310 320 321 321 326 323	316 315 309 314 318 314 315 316 317 326 331 326 329 329	310 340 303 286 313 327 327 338 362 367 340 338 343 295	291 303 218 261 285 312 303 317 321 323 320 319 288 176	302 320 250 279 303 319 321 323 338 341 328 326 321 222
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY		358 372 360 277 307 323 354 347 347 344 358 338 352 322	338 345 240 237 277 306 323 332 326 321 317 323 326 322 311	344 350 277 258 295 315 326 340 336 329 327 327 330 331 315	324 319 329 321 333 319 327 334 337 338 344 333 339 336 329	309 308 302 311 312 309 308 308 310 320 321 321 326 323 307	316 315 309 314 318 314 315 316 317 326 329 329 329 318	310 340 303 286 313 327 327 338 362 367 340 338 343 295 268	291 303 218 261 285 312 303 317 321 323 320 319 288 176 219	302 320 250 279 303 319 321 323 341 328 326 321 222 251
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY		358 372 360 277 307 323 354 347 347 344 358 358 352 322	338 345 240 237 277 306 323 322 326 321 317 323 326 322 311	344 350 277 258 295 315 326 340 336 329 327 327 330 331 315	324 319 329 321 333 319 327 334 337 338 344 333 339 336 329	309 308 302 311 312 309 308 310 320 321 321 321 326 323 307	316 315 309 314 318 314 315 316 317 326 331 326 329 318 309	310 340 303 286 313 327 327 338 362 367 340 338 343 295 268	291 303 218 261 285 312 303 317 321 323 320 319 288 176 219	302 320 250 279 303 319 321 323 338 341 328 326 321 222 251
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY		358 372 360 277 307 323 354 347 347 344 358 338 352 322	338 345 240 237 277 306 323 332 326 321 317 323 326 322 311	344 350 277 258 295 315 326 340 336 329 327 327 330 331 315	324 319 329 321 333 319 327 334 337 338 344 333 339 336 329	309 308 302 311 312 309 308 308 310 320 321 321 326 323 307	316 315 309 314 318 314 315 316 317 326 329 329 329 318	310 340 303 286 313 327 327 338 362 367 340 338 343 295 268	291 303 218 261 285 312 303 317 321 323 320 319 288 176 219	302 320 250 279 303 319 321 323 341 328 326 321 222 251
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		FEBRUARY		358 372 360 277 307 323 354 347 347 344 358 358 352 322 334 348 393	MARCH 338 345 240 237 277 306 323 326 321 317 323 326 322 311 310 317 320 324	344 350 277 258 295 315 326 340 336 329 327 337 331 315 314 321 328 352	324 319 329 321 333 319 327 334 337 338 344 333 329 315 318 327 330	309 308 302 311 312 309 308 310 320 321 321 326 323 307 306 307 314 319	316 315 309 314 318 314 315 316 317 326 331 326 329 318 309 312 321 324	310 340 303 286 313 327 327 338 362 367 340 338 343 295 268 287 297 295 259	291 303 218 261 285 312 303 317 321 323 329 288 176 219 267 274 183 188	302 320 250 279 303 319 321 323 338 341 328 326 321 222 251 279 279 279 236 217
1 2 3 4 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18		FEBRUARY		358 372 360 277 307 323 354 347 347 344 358 338 352 322 322 334 348	338 345 240 237 277 306 323 332 326 321 317 323 326 322 311 310 317 320	344 350 277 258 295 315 326 340 336 329 327 327 330 331 315 314 321 328	324 319 329 321 333 319 327 334 337 338 344 333 339 336 329	309 308 302 311 312 309 308 308 310 320 321 321 326 323 307	316 315 309 314 318 314 315 316 317 326 329 329 318 309 312 321	310 340 303 286 313 327 327 338 362 367 340 338 343 295 268 287 297	291 303 218 261 285 312 303 317 321 323 320 319 288 176 219	302 320 250 279 303 319 321 323 338 341 328 326 321 222 251 279 279 236
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		FEBRUARY		358 372 360 277 307 323 354 347 344 344 358 338 352 322 334 348 348 348 348 348 348 348 348 348	338 345 240 237 277 306 323 326 321 317 323 326 322 311 310 317 320 324 248	344 350 277 258 295 315 326 340 336 329 327 327 330 331 315 314 321 328 352 302	324 319 329 321 333 319 327 334 337 338 344 333 329 315 318 327 330 338	309 308 302 311 312 309 308 310 320 321 321 326 323 307 306 307 314 319 322	316 315 309 314 318 314 315 316 317 326 331 329 318 309 312 321 324 331	310 340 303 286 313 327 327 338 362 367 340 338 343 295 268 287 297 295 259 292	291 303 218 261 285 312 303 317 321 323 320 319 288 176 219 267 274 183 188 259	302 320 250 279 303 319 321 323 338 341 328 326 321 222 251 279 279 236 217 273
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		FEBRUARY		358 372 360 277 307 323 354 347 344 358 338 352 322 334 348 393 335	338 345 240 237 277 306 323 326 321 317 323 326 321 317 323 326 321 317 323 324 248	344 350 277 258 295 315 326 340 336 329 327 337 331 315 321 328 352 302	324 319 329 321 333 319 327 334 337 338 344 333 329 315 318 327 338 341 346	309 308 302 311 312 309 308 310 320 321 321 326 323 307 306 307 314 319 322	316 315 309 314 318 314 315 316 317 326 331 326 329 318 309 312 321 321 324 331	310 340 303 286 313 327 327 338 362 367 340 338 343 295 268 287 297 295 259 292	291 303 218 261 285 312 303 317 321 323 320 319 288 176 219 267 274 183 188 259	302 320 250 279 303 319 321 323 338 341 328 326 321 222 251 279 279 236 217 273
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		FEBRUARY		358 372 360 277 307 323 354 347 344 344 358 338 352 322 334 348 393 335 251 287 304 324	338 345 240 237 277 306 323 326 321 317 323 326 322 311 310 317 320 324 248	344 350 277 258 295 315 326 340 336 329 327 327 330 331 315 314 321 328 352 302	324 319 329 321 333 319 327 338 344 333 339 336 329 315 318 327 338 341 348 348 348 348 328	309 308 302 311 312 309 308 310 320 321 321 326 323 307 306 307 314 319 322	316 315 309 314 318 314 315 316 317 326 331 329 318 309 312 321 324 331	310 340 303 286 313 327 327 338 362 367 340 338 343 295 268 287 297 295 259 292	291 303 218 261 285 312 303 317 321 323 329 288 176 219 267 274 183 188 259 291 297 292 304	302 320 250 279 303 319 321 323 338 341 328 326 321 222 251 279 279 236 217 273 297 304 305 312
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		FEBRUARY		358 372 360 277 307 323 354 347 344 344 358 338 352 322 332 343 348 393 355 356 376 376 376 376 376 376 376 376 376 37	338 345 240 237 277 306 323 332 326 321 317 323 326 321 317 323 326 322 311 317 320 324 248	344 350 277 258 295 315 326 340 336 329 327 337 330 331 315 321 328 352 302 231 269 296	324 319 329 321 333 319 327 334 337 338 344 333 329 315 318 327 330 338	309 308 302 311 312 309 308 310 320 321 321 326 323 307 306 307 314 319 322 331 332 323	316 315 309 314 318 314 315 316 327 326 329 329 318 309 312 321 324 331 336 339 337	310 340 303 286 313 327 327 338 362 367 340 338 343 295 268 287 297 295 259 292	291 303 218 261 285 312 303 317 321 323 320 319 288 176 219 267 274 183 188 259	302 320 250 279 303 319 321 323 338 341 328 326 321 222 251 279 236 217 273 297 304 305
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26		FEBRUARY		358 372 360 277 307 323 354 347 344 344 358 338 352 322 334 348 393 335 251 287 304 342 342	338 345 240 237 277 306 323 326 321 317 323 326 322 311 310 317 320 324 248 220 251 283 304 323	344 350 277 258 295 315 326 340 336 329 327 337 331 315 314 321 322 302 231 269 296 315 326 327	324 319 329 321 333 319 327 338 344 333 339 336 329 315 318 327 338 341 348 348 348 348 348 348 348 348 348 348	309 308 302 311 312 309 308 308 310 320 321 321 326 323 307 306 307 314 319 322 331 333 327 310 322	316 315 309 314 318 314 315 316 317 326 331 329 318 309 312 321 321 324 331 336 339 312 321 321 324 331 337 337 337 337 337 337 337 337 337	310 340 303 286 313 327 327 338 362 367 340 338 343 295 268 287 297 295 292 303 311 319 320 317	291 303 218 261 285 312 303 317 321 323 329 288 176 219 267 274 183 188 259 291 297 292 304 302	302 320 250 279 303 319 321 323 338 341 328 326 321 222 251 279 279 236 217 273 297 304 305 312 311
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27		FEBRUARY		358 372 360 277 307 323 354 347 344 348 358 338 352 322 334 348 348 393 335 251 287 304 324 324 324 322	338 345 240 237 277 306 323 326 321 317 323 326 321 317 320 317 320 324 248 220 251 283 304 323	344 350 277 258 295 315 326 340 336 329 327 337 331 315 321 328 352 302 231 269 296 315 326	324 319 329 321 333 319 327 334 337 338 344 333 329 315 318 327 338 341 346 348 328 334	309 308 302 311 312 309 308 308 310 320 321 321 326 323 307 306 307 314 319 322 331 333 327 310 322	316 315 309 314 318 314 315 316 317 326 331 329 318 309 312 321 321 321 321 321 321 321 321 321	310 340 303 286 313 327 327 338 362 367 340 338 343 295 268 287 297 295 259 292 303 311 319 320 317 328 327 327 338 343 343 343 344 345 345 346 347 347 348 348 348 348 348 348 348 348	291 303 218 261 285 312 303 317 321 323 320 319 288 176 219 267 274 183 188 259 291 297 292 304 302	302 320 250 279 303 319 321 323 338 341 328 326 321 222 251 279 279 236 217 273 297 304 305 311 318 317
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29		FEBRUARY		358 372 360 277 307 323 354 347 344 344 358 338 352 322 334 348 393 335 251 287 304 342 342	338 345 240 237 277 306 323 326 321 317 323 326 322 311 310 317 320 324 248 220 251 283 304 323	344 350 277 258 295 315 326 340 336 329 327 337 331 315 314 321 322 302 231 269 296 315 326 327	324 319 329 321 333 319 327 338 344 337 338 344 333 339 336 329 315 318 327 338 341 348 328 334 338 348 328 334	309 308 302 311 312 309 308 308 310 320 321 321 326 323 307 306 307 314 319 322 331 333 327 310 322	316 315 309 314 318 314 315 316 317 326 331 329 318 309 312 321 321 324 331 336 339 312 321 321 324 331 337 337 337 337 337 337 337 337 337	310 340 303 286 313 327 327 338 362 367 340 338 343 295 268 287 297 295 292 303 311 319 320 317	291 303 218 261 285 312 303 317 321 323 320 319 288 176 219 267 274 183 188 259 291 297 297 292 304 302	302 320 250 279 303 319 321 323 338 341 328 326 321 222 251 279 279 236 217 273 297 304 305 312 311
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 20 20 20 20 20 20 20 20 20 20 20 20 20		FEBRUARY		358 372 360 277 307 323 354 347 344 344 358 338 352 322 334 348 393 335 251 287 304 342 342 322 272 293 308	338 345 240 237 277 306 323 326 321 317 323 326 322 311 310 317 320 324 248 220 251 283 304 323 319 254 251 270 292	344 350 277 258 295 315 326 340 336 329 327 337 331 315 321 328 352 302 231 269 296 315 326 327 287 260 287 260 287 260 297	324 319 329 321 333 319 327 334 337 338 344 333 329 315 318 327 338 341 346 348 328 334 334 338	309 308 302 311 312 309 308 310 320 321 321 326 323 307 306 307 314 319 322 331 332 327 325 257 241 270	316 315 309 314 318 314 315 316 317 326 331 329 318 309 312 321 321 321 321 321 321 321 321 321	310 340 303 286 313 327 327 338 362 367 340 338 343 295 268 287 297 295 259 292 303 311 319 320 317 328 327 327 327 327 328 327 327 327 327 328 327 327 327 327 327 327 327 327	291 303 218 261 285 312 303 317 321 323 320 319 288 176 219 267 274 183 188 259 291 297 292 304 302 313 304 306 301 321	302 320 250 279 303 319 321 323 338 341 328 326 321 222 251 279 279 236 217 273 297 304 305 312 311 318 317 317 317 317 317 317 312 325
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29		FEBRUARY		358 372 360 277 307 323 354 347 344 348 358 352 322 334 343 343 355 322 322 334 343 343 343 343 343 343 343	338 345 240 237 277 306 323 326 321 317 323 326 322 311 310 317 320 324 248 220 251 283 304 323	344 350 277 258 295 315 326 340 336 329 327 337 331 315 314 321 322 302 231 269 296 315 326 327 287 287 287 287 287 287 287	324 319 329 321 333 319 327 338 344 337 338 344 333 339 336 329 315 318 327 338 341 348 328 334 338 348 328 334	309 308 302 311 312 309 308 308 310 320 321 321 326 323 307 306 307 314 319 322 331 333 327 310 322	316 315 309 314 318 314 315 316 317 326 331 329 318 309 312 321 321 321 321 321 321 321 321 321	310 340 303 286 313 327 327 338 362 367 340 338 343 295 268 287 297 295 292 303 311 319 320 317 328 327 327 327 327 327 327 327 327	291 303 218 261 285 312 303 317 321 323 320 319 288 176 219 267 274 183 188 259 291 297 297 292 304 302	302 320 250 279 303 319 321 323 338 341 328 326 321 222 251 279 279 236 217 273 297 304 305 312 311

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST		S	EPTEMBE	R
1 2 3 4 5	344 344 349 358 366	330 332 336 342 354	337 339 343 352 360	345 352 361 363 367	321 336 351 348 344	334 346 354 353 354	420 401 417 422 297	356 358 382 265 260	392 386 396 363 272	329 380 333 346 385	303 324 316 325 346	314 343 321 332 365
6 7 8 9 10	376 330 260 295 311	297 167 201 260 295	350 204 232 279 303	384 375 385 394 393	359 357 359 373 364	365 365 371 382 374	353 391 412 417 431	297 353 391 402 399	321 373 402 411 416	389 401 404 	381 383 394 	384 390 400
11 12 13 14 15	327 337 334 327 310	309 325 325 308 262	316 329 328 319 283	382 378 379 382 381	359 357 358 358 362	372 369 369 368 368	437 430 436 433 443	312 330 327 335 422	397 412 393 412 430	430 416 423 420 433	400 395 404 411 413	412 405 410 416 420
16 17 18 19 20	290 302 307 316 321	262 286 295 282 291	278 294 299 304 301	390 395 388 392 391	368 377 368 375 377	379 385 377 382 384	455 442 440 445 460	426 419 427 429 431	439 430 432 436 439	430 443 412 403 404	413 412 369 384 365	418 432 385 392 384
21 22 23 24 25	306 314 322 340 338	295 306 311 319 327	301 310 319 332 334	405 410 436 408 406	386 393 388 388 380	393 399 401 397 393	448 460 460 450 423	435 436 432 414 348	441 443 439 430 386	410 412 413 416 414	382 387 396 398 399	392 403 405 410 406
26 27 28 29 30 31	337 363 334 334 325	331 314 308 317 317	334 329 321 324 321	416 397 394 391 400 413	384 386 373 370 375 380	395 391 386 384 390 397	348 358 390 395 305 331	306 318 357 295 269 304	321 333 372 344 282 316	420 320 285 281 312	313 251 236 236 277	399 283 259 260 291
MONTH	376	167	312	436	321	377	460	260	389	443	236	373

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
DAI										MAA		
		OCTOBER		N	OVEMBER	3	1	DECEMBE	R		JANUAR'	Y
1 2	7.3 7.4	7.1 7.1	7.2 7.2	7.6	7.2	7.2	7.1 7.2	6.8	6.9 7.0			
3	7.5	7.2	7.2	7.4	6.9	7.0						
4 5	7.6 7.9	7.2 7.2	7.2 7.4	7.5	7.0 7.0	7.1 7.2						
5	7.9	1.2	7.4	7.4	7.0	1.2						
6	7.8	7.2	7.4	7.6	7.1	7.2						
7	7.9	7.2	7.3	7.8	7.2	7.3						
8 9	7.9 7.8	7.3 7.3	7.4 7.4	7.9 7.8	7.2 7.2	7.4 7.4						
10	7.9	7.3	7.5	7.9	7.3	7.4						
11	7.9	7.4	7.5	7.8	7.2	7.4						
12 13	7.9 7.8	7.3 7.2	7.5 7.4	7.9 8.0	7.4 7.4	7.5 7.6						
14	7.6	7.1	7.3	8.0	7.4	7.6						
15	7.3	7.0	7.1	8.0	7.3	7.6						
1.0		7.0		0.0		7.5						
16 17	7.3 7.3	7.0 7.1	7.1 7.1	8.0 8.0	7.3 7.2	7.5 7.5						
18	7.4	7.1	7.2	7.8	7.2	7.4						
19	7.5	7.2	7.2	8.0	7.3	7.5						
20	7.5	7.2	7.2	8.0	7.3	7.6						
21	7.5	7.1	7.2	8.0	7.3	7.6						
22	7.4	7.1	7.1	8.0	7.3	7.6						
23	7.4	7.0	7.1	8.0	7.4	7.6						
24	7.3	6.9	7.0	7.8	7.3	7.5						
25	7.2	6.9	7.0	7.6	7.0	7.2						
26	7.2	6.9	7.0	7.0	6.8	6.9						
27	7.2	7.0	7.1	7.2	6.8	6.9						
28	7.4	7.1	7.1	7.2	6.9	7.0						
29 30	7.4 7.6	7.1 7.2	7.2 7.3	7.0 7.0	6.9 6.9	6.9 6.9						
31	7.6	7.2	7.2									
MAX	7.9	7.4	7.5	8.0	7.4	7.6						
MIN	7.2	6.9	7.0	7.0	6.8	6.9						

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		FEBRUAR	Y		MARCH			APRIL			MAY	
1				8.8	7.8	8.3	8.1	7.6	7.8	7.7	7.2	7.4
2				8.6 8.0	7.7	8.1 7.6	8.4	7.7 7.7	8.0 7.9	7.4	7.3	7.3
4 5				7.6 7.7	7.4 7.4	7.5 7.6	8.6 8.8	7.7 7.9	8.1 8.3	7.3 7.3	7.2 7.2	7.2 7.2
6				7.8	7.6	7.7	8.9	7.9	8.5	7.3	7.2	7.3
7				7.9	7.6	7.7	9.0	8.0	8.7	7.4	7.2	7.2
8 9				7.9 8.0	7.6 7.6	7.7 7.7	9.1 9.0	8.0 7.9	8.7 8.6	7.3 7.3	7.2 7.2	7.2 7.2
10				8.0	7.6	7.8	8.9	7.8	8.3	7.5	7.3	7.3
11 12				8.1 8.1	7.7 7.7	7.8 7.8	8.9 8.6	7.8 7.7	8.4 8.1	7.5 7.5	7.3 7.3	7.3 7.3
13				7.9	7.6	7.7	8.5	7.5	7.9	7.3	7.2	7.3
14 15				7.9 8.1	7.6 7.7	7.8 7.8	8.6 8.3	7.5 7.5	8.0 7.8	7.3 7.3	7.2 7.2	7.3 7.3
16				8.0	7.6	7.7	8.3	7.3	7.5	7.4	7.3	7.3
17				7.8	7.6	7.7	8.2	7.3	7.5	7.4	7.2	7.3
18 19				7.8 7.9	7.6 7.7	7.7 7.7	7.9 7.6	7.2 7.2	7.3 7.2	7.3 7.3	7.2 7.2	7.3 7.3
20				7.7	7.6	7.7	7.3	7.1	7.2	7.3	7.2	7.3
21				7.6	7.5	7.5	7.3	7.1	7.2	7.4	7.3	7.3
22 23				7.7 7.8	7.5 7.6	7.6 7.7	7.4 7.7	7.2 7.3	7.3 7.4	7.4 7.5	7.3 7.3	7.4 7.4
24 25				7.9 7.9	7.7 7.7	7.8 7.8	7.9 7.5	$7.4 \\ 7.4$	7.5 7.4	7.6 7.8	7.3 7.3	7.4 7.5
26 27				7.8 7.7	7.6 7.6	7.7 7.6	7.8 8.0	7.3 7.4	7.5 7.6	8.0 7.8	7.3 7.3	7.4 7.4
28 29	8.8	7.7	8.4	7.8 8.0	7.6 7.6	7.7 7.8	7.5 7.3	7.3 7.2	7.4 7.3	7.9 8.3	7.3 7.3	7.5 7.6
30				8.0	7.6	7.7	7.5	7.3	7.3	8.5	7.3	7.7
31				7.8	7.6					8.6		7.6
MAX MIN				8.8 7.6	7.8 7.4	8.3 7.5	9.1 7.3	8.0 7.1	8.7 7.2	8.6 7.3	7.3 7.2	7.7 7.2
DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
DAY	MAX		MEDIAN	MAX	MIN	MEDIAN	MAX		MEDIAN	MAX		MEDIAN ER
		JUNE			JULY			AUGUST			SEPTEMB	ER
1 2	8.4 8.3	JUNE 7.3 7.2	7.6 7.5	8.0 8.1	JULY 7.2 7.3	7.3 7.4	8.1 8.0	AUGUST 7.2 7.2	7.4 7.4	7.5 7.6	7.2 7.4	ER 7.3 7.4
1	8.4	JUNE 7.3	7.6	8.0	JULY 7.2	7.3	8.1	AUGUST	7.4 7.4 7.4	7.5	SEPTEMB 7.2	7.3 7.4 7.4
1 2 3	8.4 8.3 7.8	JUNE 7.3 7.2 7.2	7.6 7.5 7.4	8.0 8.1 8.1	JULY 7.2 7.3 7.3	7.3 7.4 7.3	8.1 8.0 8.2	7.2 7.2 7.1	7.4 7.4	7.5 7.6 7.9	7.2 7.4 7.3	ER 7.3 7.4
1 2 3 4 5	8.4 8.3 7.8 7.8 8.0	7.3 7.2 7.2 7.3 7.3 7.3	7.6 7.5 7.4 7.4 7.5	8.0 8.1 8.1 8.0 8.1	7.2 7.3 7.3 7.2 7.2	7.3 7.4 7.3 7.3 7.3	8.1 8.0 8.2 7.6 7.3	7.2 7.2 7.1 7.1 7.0	7.4 7.4 7.4 7.4 7.1	7.5 7.6 7.9 8.0 8.0	7.2 7.4 7.3 7.3 7.2 7.3	7.3 7.4 7.4 7.3 7.4
1 2 3 4 5	8.4 8.3 7.8 7.8 8.0	7.3 7.2 7.2 7.3 7.3	7.6 7.5 7.4 7.4 7.5	8.0 8.1 8.1 8.0 8.1	7.2 7.3 7.3 7.2 7.2	7.3 7.4 7.3 7.3 7.3	8.1 8.0 8.2 7.6 7.3	7.2 7.2 7.1 7.1 7.0	7.4 7.4 7.4 7.4 7.1	7.5 7.6 7.9 8.0 8.0	7.2 7.4 7.3 7.3	7.3 7.4 7.4 7.3 7.4
1 2 3 4 5 6 7 8	8.4 8.3 7.8 7.8 8.0 7.8 7.2 7.1	7.3 7.2 7.2 7.3 7.3 7.3 7.1 7.0 7.1	7.6 7.5 7.4 7.4 7.5 7.4 7.1	8.0 8.1 8.1 8.0 8.1 8.0 8.1 8.4	7.2 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.3 7.3	7.3 7.4 7.3 7.3 7.3 7.3 7.4 7.5	8.1 8.0 8.2 7.6 7.3 7.9 8.2 8.3 8.5	7.2 7.2 7.1 7.1 7.0 7.0 7.2 7.3	7.4 7.4 7.4 7.4 7.1 7.2 7.5 7.6 7.7	7.5 7.6 7.9 8.0 8.0	7.2 7.4 7.3 7.3 7.2 7.3 7.2	7.3 7.4 7.4 7.3 7.4 7.4 7.5
1 2 3 4 5 6 7 8 9	8.4 8.3 7.8 8.0 7.8 7.2 7.1 7.3 7.4	7.3 7.2 7.2 7.3 7.3 7.3 7.1 7.0 7.1 7.1	7.6 7.5 7.4 7.5 7.4 7.1 7.1 7.2 7.3	8.0 8.1 8.1 8.0 8.1 8.4 8.3	7.2 7.3 7.3 7.2 7.2 7.2 7.2 7.3 7.3 7.3	7.3 7.4 7.3 7.3 7.3 7.4 7.5 7.4	8.1 8.0 8.2 7.6 7.3 7.9 8.2 8.3 8.5	7.2 7.2 7.1 7.1 7.0 7.0 7.0 7.2 7.3 7.3	7.4 7.4 7.4 7.1 7.2 7.5 7.6 7.7	7.5 7.6 7.9 8.0 8.0 8.1 8.3 8.3	7.2 7.4 7.3 7.3 7.2 7.3 7.3 7.3	7.3 7.4 7.4 7.3 7.4 7.5 7.6
1 2 3 4 5 6 7 8 9 10	8.4 8.3 7.8 7.8 8.0 7.8 7.2 7.1 7.3 7.4	7.3 7.2 7.2 7.3 7.3 7.3 7.1 7.0 7.1 7.2 7.3 7.3	7.6 7.5 7.4 7.4 7.5 7.4 7.1 7.1 7.2 7.3	8.0 8.1 8.0 8.1 8.0 8.1 8.4 8.3 8.2	7.2 7.3 7.3 7.2 7.2 7.2 7.2 7.3 7.3 7.3	7.3 7.4 7.3 7.3 7.3 7.3 7.4 7.5 7.4	8.1 8.0 8.2 7.6 7.3 7.9 8.2 8.3 8.5 8.6	7.2 7.2 7.1 7.1 7.0 7.0 7.2 7.3 7.3 7.3	7.4 7.4 7.4 7.1 7.2 7.5 7.6 7.7 7.7	7.5 7.6 7.9 8.0 8.0 8.1 8.3 8.3 	7.2 7.4 7.3 7.3 7.2 7.3 7.3 7.2 7.3 7.3 7.3 7.3 7.3	7.3 7.4 7.4 7.3 7.4 7.5 7.6
1 2 3 4 5 6 7 8 9 10	8.4 8.3 7.8 7.8 8.0 7.8 7.2 7.1 7.3 7.4	7.3 7.2 7.2 7.3 7.3 7.3 7.1 7.0 7.1 7.1 7.2 7.3	7.6 7.5 7.4 7.4 7.5 7.4 7.1 7.1 7.2 7.3	8.0 8.1 8.1 8.0 8.1 8.0 8.1 8.4 8.3 8.2	7.2 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.3 7.3 7.3 7.3	7.3 7.4 7.3 7.3 7.3 7.4 7.4 7.4	8.1 8.0 8.2 7.6 7.3 7.9 8.2 8.3 8.5 8.6	7.2 7.2 7.1 7.1 7.0 7.0 7.2 7.3 7.3 7.3	7.4 7.4 7.4 7.1 7.2 7.5 7.6 7.7	7.5 7.6 7.9 8.0 8.1 8.3 8.3	7.2 7.4 7.3 7.3 7.2 7.3 7.3 7.3 7.3 7.3 7.3	7.3 7.4 7.4 7.3 7.4 7.5 7.6
1 2 3 4 5 6 7 8 9 10 11 12 13	8.4 8.3 7.8 8.0 7.8 7.2 7.1 7.3 7.4 7.5	7.3 7.2 7.3 7.3 7.3 7.3 7.1 7.0 7.1 7.1 7.2 7.3 7.3 7.3	7.6 7.5 7.4 7.5 7.4 7.1 7.1 7.2 7.3 7.3	8.0 8.1 8.0 8.1 8.0 8.1 8.4 8.3 8.2	7.2 7.3 7.3 7.2 7.2 7.2 7.2 7.3 7.3 7.3 7.3	7.3 7.4 7.3 7.3 7.3 7.4 7.5 7.4 7.5	8.1 8.0 8.2 7.6 7.3 7.9 8.2 8.3 8.5 8.6	7.2 7.2 7.1 7.1 7.0 7.0 7.0 7.2 7.3 7.3 7.3	7.4 7.4 7.4 7.1 7.2 7.5 7.6 7.7 7.7	7.5 7.6 7.9 8.0 8.0 8.1 8.3 8.3 8.5 8.5	7.2 7.4 7.3 7.3 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.3 7.4 7.4 7.3 7.4 7.5 7.6 7.6 7.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	8.4 8.3 7.8 7.8 8.0 7.8 7.2 7.1 7.3 7.4 7.5 7.3 7.3 7.3	7.3 7.2 7.3 7.3 7.1 7.0 7.1 7.1 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.6 7.5 7.4 7.4 7.5 7.4 7.1 7.1 7.2 7.3 7.3 7.3 7.3 7.3	8.0 8.1 8.1 8.0 8.1 8.4 8.3 8.2 8.2 8.3 8.2 8.3	7.2 7.3 7.3 7.2 7.2 7.2 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.3 7.4 7.3 7.3 7.3 7.4 7.5 7.4 7.5 7.5 7.5 7.5	8.1 8.0 7.6 7.3 7.9 8.2 8.3 8.5 8.6 8.7 8.7 8.7 8.6	7.2 7.2 7.1 7.1 7.0 7.0 7.2 7.3 7.3 7.3 7.3 7.3 7.3	7.4 7.4 7.4 7.1 7.2 7.5 7.6 7.7 7.7 7.8 7.8 7.8 7.9	7.5 7.6 7.9 8.0 8.1 8.3 8.3 8.5 8.5 8.4 8.2	7.2 7.4 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.3 7.4 7.4 7.3 7.4 7.5 7.6 7.7 7.7 7.8 7.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.4 8.3 7.8 7.8 8.0 7.8 7.2 7.1 7.3 7.4 7.5 7.3 7.3 7.3	7.3 7.2 7.3 7.3 7.3 7.1 7.0 7.1 7.1 7.2 7.3 7.3 7.3 7.3 7.3	7.6 7.5 7.4 7.5 7.4 7.1 7.1 7.2 7.3 7.3 7.3 7.3 7.3 7.3	8.0 8.1 8.0 8.1 8.0 8.1 8.4 8.3 8.2 8.2 8.3 8.2	7.2 7.3 7.3 7.2 7.2 7.2 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.3 7.4 7.3 7.3 7.3 7.4 7.5 7.4 7.4 7.5 7.5 7.5	8.1 8.0 8.2 7.6 7.3 7.9 8.2 8.3 8.5 8.6 8.6 8.7 8.7	7.2 7.2 7.1 7.1 7.0 7.0 7.2 7.3 7.3 7.3 7.3 7.2 7.2 7.2	7.4 7.4 7.4 7.1 7.2 7.5 7.6 7.7 7.7 7.8 7.8 7.8 7.9	7.5 7.6 7.9 8.0 8.0 8.1 8.3 8.3 8.5 8.5 8.5 8.4	7.2 7.4 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.3 7.4 7.4 7.3 7.4 7.5 7.6 7.6 7.7 7.8 7.5 7.7
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	8.4 8.3 7.8 7.8 8.0 7.8 7.2 7.1 7.3 7.4 7.5 7.3 7.3 7.3 7.7 7.8 8.0 8.0	7.3 7.2 7.2 7.3 7.3 7.1 7.0 7.1 7.1 7.2 7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.4 7.4	7.6 7.5 7.4 7.4 7.5 7.4 7.1 7.1 7.2 7.3 7.3 7.3 7.3 7.3 7.5 7.5 7.5	8.0 8.1 8.0 8.1 8.0 8.1 8.3 8.2 8.3 8.2 8.3 8.4 8.4 8.4 8.4	7.2 7.3 7.3 7.2 7.2 7.2 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.3 7.4 7.3 7.3 7.3 7.4 7.5 7.4 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	8.1 8.0 8.2 7.6 7.3 7.9 8.2 8.3 8.6 8.6 8.7 8.7 8.7 8.7 8.7 8.7 8.4	7.2 7.2 7.1 7.0 7.0 7.3 7.3 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.4 7.4 7.4 7.1 7.2 7.5 7.6 7.7 7.7 7.7 7.8 7.8 7.8 7.9 7.6 7.6	7.5 7.6 7.9 8.0 8.1 8.3 8.3 8.5 8.5 8.5 8.5 8.7	7.2 7.4 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.4 7.3 7.4 7.4 7.4 7.4 7.3 7.3 7.3	7.3 7.4 7.4 7.3 7.4 7.5 7.6 7.7 7.7 7.8 7.6 7.5 7.6 7.7 7.7
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	8.4 8.3 7.8 7.8 7.2 7.3 7.4 7.5 7.3 7.3 7.4 7.6 7.7 7.8 8.0 8.1 8.2 7.5	7.3 7.2 7.2 7.3 7.3 7.1 7.0 7.1 7.1 7.2 7.3 7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.4 7.4 7.3 7.3 7.3 7.3 7.3 7.2 7.3 7.3 7.2 7.3 7.3 7.2 7.2 7.3 7.3 7.2 7.2 7.3 7.3 7.2 7.2 7.3 7.3 7.2 7.2 7.3 7.3 7.2 7.2 7.3 7.3 7.2 7.2 7.3 7.3 7.3 7.2 7.2 7.3	7.6 7.5 7.4 7.1 7.1 7.1 7.2 7.3 7.3 7.3 7.3 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	8.0 8.1 8.0 8.1 8.0 8.1 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.7 7.7 8.2	7.2 7.3 7.3 7.2 7.2 7.2 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.3 7.4 7.3 7.3 7.3 7.4 7.5 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	8.1 8.0 7.6 7.3 7.9 8.2 8.3 8.6 8.7 8.7 8.7 8.7 8.6 8.5 8.4 8.4 8.4 8.4 8.4 8.4 7.9	7.2 7.2 7.1 7.0 7.0 7.3 7.3 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.4 7.4 7.4 7.1 7.2 7.5 7.6 7.7 7.7 7.8 7.8 7.8 7.6 7.6 7.6 7.6 7.6 7.4	7.5 7.6 7.9 8.0 8.1 8.3 8.3 8.5 8.5 8.5 8.5 8.7 8.6 8.7 8.6 8.7	7.2 7.4 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.4 7.4 7.5 7.4 7.5 7.4 7.5	7.3 7.4 7.4 7.5 7.6 7.7 7.7 7.7 7.7 7.6 7.7 7.7 7.7 7.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	8.4 8.3 7.8 7.8 7.8 7.2 7.1 7.3 7.4 7.5 7.3 7.3 7.4 7.6 7.7 7.8 7.7 7.8 8.0 8.1 8.1 8.2 7.5 7.7	7.3 7.2 7.3 7.1 7.0 7.1 7.1 7.2 7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.4 7.4 7.3 7.3 7.3 7.3 7.2 7.2 7.2 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.2	7.6 7.7 7.4 7.4 7.5 7.4 7.1 7.1 7.2 7.3 7.3 7.3 7.3 7.3 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	8.0 8.1 8.0 8.1 8.0 8.1 8.4 8.3 8.2 8.2 8.3 8.2 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.6 8.1 8.1 8.0 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	7.2 7.3 7.2 7.2 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.3 7.4 7.3 7.3 7.3 7.4 7.5 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.6 7.5 7.5 7.6 7.5 7.5 7.4 7.5 7.5 7.4 7.5 7.4 7.5 7.4 7.5 7.4 7.5 7.4 7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	8.1 8.0 7.3 7.9 8.2 8.3 8.5 8.6 8.7 8.7 8.6 8.5 8.4 8.4 8.4 8.4 8.4 7.9 7.6 7.9	7.2 7.2 7.1 7.1 7.0 7.0 7.3 7.3 7.3 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.4 7.4 7.4 7.1 7.2 7.5 7.6 7.7 7.7 7.8 7.8 7.9 7.8 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.7	7.5 7.6 7.9 8.0 8.1 8.3 8.5 8.5 8.4 8.2 8.0 8.2 8.6 8.7 8.6 8.7 8.6 8.7	7.2 7.4 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.4 7.5 7.4 7.5 7.4 7.2 7.2 7.2	7.3 7.4 7.3 7.4 7.5 7.6 7.7 7.8 7.6 7.7 7.8 7.6 7.7 7.7 7.6 7.7 7.7 7.6 7.6 7.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	8.4 8.3 7.8 7.8 7.2 7.3 7.4 7.5 7.3 7.3 7.4 7.6 7.7 7.8 8.0 8.1 8.2 7.5	7.3 7.2 7.2 7.3 7.3 7.1 7.0 7.1 7.1 7.2 7.3 7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.4 7.4 7.3 7.3 7.3 7.3 7.3 7.2 7.3 7.3 7.2 7.3 7.3 7.2 7.2 7.3 7.3 7.2 7.2 7.3 7.3 7.2 7.2 7.3 7.3 7.2 7.2 7.3 7.3 7.2 7.2 7.3 7.3 7.2 7.2 7.3 7.3 7.3 7.2 7.2 7.3	7.6 7.5 7.4 7.1 7.1 7.1 7.2 7.3 7.3 7.3 7.3 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	8.0 8.1 8.0 8.1 8.0 8.1 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.7 7.7 8.2	7.2 7.3 7.3 7.2 7.2 7.2 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.3 7.4 7.3 7.3 7.3 7.4 7.5 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	8.1 8.0 7.6 7.3 7.9 8.2 8.3 8.6 8.7 8.7 8.7 8.7 8.6 8.5 8.4 8.4 8.4 8.4 8.4 8.4 7.9	7.2 7.2 7.1 7.0 7.0 7.3 7.3 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.4 7.4 7.4 7.1 7.2 7.5 7.6 7.7 7.7 7.8 7.8 7.8 7.6 7.6 7.6 7.6 7.6 7.4	7.5 7.6 7.9 8.0 8.1 8.3 8.3 8.5 8.5 8.5 8.5 8.7 8.6 8.7 8.6 8.7	7.2 7.4 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.4 7.4 7.5 7.4 7.5 7.4 7.5	7.3 7.4 7.4 7.5 7.6 7.7 7.7 7.7 7.7 7.6 7.7 7.7 7.7 7.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 29 30 20 20 20 20 20 20 20 20 20 20 20 20 20	8.4 8.3 7.8 7.8 7.8 7.2 7.1 7.3 7.4 7.5 7.3 7.3 7.4 7.6 7.7 7.8 8.0 8.1 8.2 7.5 7.5 7.7	7.3 7.2 7.3 7.3 7.1 7.0 7.1 7.2 7.3 7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.4 7.4 7.3 7.3 7.3 7.3 7.2 7.3 7.3 7.2 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.6 7.5 7.4 7.1 7.1 7.1 7.2 7.3 7.3 7.3 7.3 7.3 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	8.0 8.1 8.0 8.1 8.0 8.1 8.3 8.2 8.2 8.3 8.2 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.7 7.7 8.2	7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.3 7.4 7.3 7.3 7.3 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.6 7.5 7.5 7.6 7.5 7.6 7.6 7.5 7.4 7.4 7.4 7.4 7.4	8.1 8.0 7.3 7.9 8.2 8.3 8.5 8.6 8.7 8.7 8.7 8.6 8.5 8.4 8.4 8.4 8.4 8.4 8.7 7.6	7.2 7.2 7.1 7.0 7.0 7.3 7.3 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.4 7.4 7.4 7.1 7.2 7.5 7.6 7.7 7.7 7.8 7.8 7.8 7.9 7.5 6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.3	7.5 7.6 7.9 8.0 8.1 8.3 8.3 8.5 8.5 8.4 8.2 8.6 8.7 8.6 8.7 8.6 8.7 8.6 8.7	7.2 7.4 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.3 7.4 7.3 7.4 7.5 7.6 7.7 7.8 7.6 7.5 7.6 7.7 7.8 7.6 7.6 7.7 7.6 7.6 7.6 7.6 7.6 7.6 7.7

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1 2	14.0 15.5	13.5 13.0	14.0 14.0	11.5	9.0	10.0	14.0 13.0	12.5 10.0	13.5 11.5			
3 4	17.0 18.0	14.0 15.5	15.5 17.0	14.5 13.5	13.0 12.0	13.5 12.5						
5	18.5	16.0	17.5	12.5	10.0	11.0						
6 7	18.0 16.0	16.0 14.0	17.5 15.0	10.5 10.0	9.0 8.5	9.5 9.0						
8 9	14.0 12.5	12.0 10.5	13.0 11.5	10.0 10.0	8.5 9.0	9.0 9.5						
10	12.5	10.5	11.5	9.5	7.5	8.5						
11 12	14.0 15.0	11.0 13.0	12.5 14.0	9.0 7.5	7.5 6.0	8.0 7.0						
13	17.0	14.5	15.5	6.5	5.0	6.0						
14 15	17.5 18.0	16.0 16.5	17.0 17.5	6.5 7.5	4.5 5.5	5.5 6.5						
16 17	17.0 15.0	14.5 13.0	15.5 14.0	9.0 9.0	7.0 8.0	8.0 8.5						
18	13.5	11.5	12.5	8.5	7.0	8.0						
19 20	12.0 13.0	10.0 10.5	11.0 11.5	8.0 8.5	7.0 7.0	7.5 8.0						
21	13.5	11.0	12.5	7.5	6.0	6.5						
22 23	15.0 16.0	13.0 14.5	14.0 15.0	6.0 6.0	4.5 4.5	5.5 5.0						
24 25	17.5 17.5	15.5 16.0	16.5 16.5	8.0 11.0	5.5 8.0	6.5 9.5						
		13.0										
26 27	16.0 13.0	10.5	14.5 11.5	12.5 11.5	11.0 10.5	12.0 11.0						
28 29	11.0 10.0	9.0 8.0	10.0 9.0	12.0 12.5	10.5 12.0	11.5 12.0						
30 31	10.5	8.5 9.0	9.5 9.5	13.5	12.5	13.0						
MONTH	18.5	8.0	13.7	14.5	4.5	8.9						
11011111	10.5	0.0	13.7		1.0	0.5						
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY		MIN FEBRUARY	MEAN	MAX	MIN MARCH	MEAN	MAX	MIN APRIL	MEAN	MAX	MIN MAY	MEAN
1		FEBRUARY		5.5	MARCH 2.5	4.0	13.0	APRIL	12.0	16.5	MAY 13.5	15.0
1 2 3		FEBRUARY		5.5 5.5 8.0	MARCH 2.5 3.0 5.5	4.0 4.5 7.0	13.0 13.0 15.5	APRIL 11.5 10.5 12.0	12.0 12.0 13.5	16.5 17.0 17.0	MAY 13.5 15.5 16.0	15.0 16.5 16.5
1 2		FEBRUARY		5.5 5.5	MARCH 2.5 3.0	4.0 4.5	13.0 13.0	APRIL 11.5 10.5	12.0 12.0	16.5 17.0	MAY 13.5 15.5	15.0 16.5
1 2 3 4 5		FEBRUARY		5.5 5.5 8.0 7.5	MARCH 2.5 3.0 5.5 4.5 3.0 2.5	4.0 4.5 7.0 6.0 3.5	13.0 13.0 15.5 13.0	APRIL 11.5 10.5 12.0 11.0	12.0 12.0 13.5 12.0	16.5 17.0 17.0 16.5	MAY 13.5 15.5 16.0 14.0 15.0	15.0 16.5 16.5 15.5 16.5
1 2 3 4 5		FEBRUARY		5.5 5.5 8.0 7.5 4.5 5.0 7.0	MARCH 2.5 3.0 5.5 4.5 3.0	4.0 4.5 7.0 6.0 3.5	13.0 13.0 15.5 13.0 11.5	APRIL 11.5 10.5 12.0 11.0 9.5 8.0 7.0	12.0 12.0 13.5 12.0 10.5	16.5 17.0 17.0 16.5 17.5	13.5 15.5 16.0 14.0 15.0	15.0 16.5 16.5 15.5 16.5
1 2 3 4 5 6 7 8		FEBRUARY		5.5 5.5 8.0 7.5 4.5 5.0 7.0 9.0	2.5 3.0 5.5 4.5 3.0 2.5 3.5 5.5 7.5	4.0 4.5 7.0 6.0 3.5 3.5 5.5 7.5 9.5	13.0 13.0 15.5 13.0 11.5 10.0 10.5 12.0 14.5	APRIL 11.5 10.5 12.0 11.0 9.5 8.0 7.0 8.0 11.0	12.0 12.0 13.5 12.0 10.5 9.0 8.5 10.0 13.0	16.5 17.0 17.0 16.5 17.5 18.5 20.0 20.5	MAY 13.5 15.5 16.0 14.0 15.0 16.0 17.0 18.5 16.5	15.0 16.5 16.5 15.5 16.5 17.0 18.5 19.5 18.0
1 2 3 4 5 6 7 8 9		FEBRUARY		5.5 5.5 8.0 7.5 4.5 5.0 7.0 9.0 11.0	2.5 3.0 5.5 4.5 3.0 2.5 3.5 5.5 7.5 8.5	4.0 4.5 7.0 6.0 3.5 3.5 5.5 7.5 9.5	13.0 13.0 15.5 13.0 11.5 10.0 10.5 12.0 14.5 17.0	APRIL 11.5 10.5 12.0 11.0 9.5 8.0 7.0 8.0 11.0 13.5	12.0 12.0 13.5 12.0 10.5 9.0 8.5 10.0 13.0	16.5 17.0 17.0 16.5 17.5 18.5 20.0 20.5 19.5	MAY 13.5 15.5 16.0 14.0 15.0 16.0 17.0 18.5 16.5 16.0	15.0 16.5 16.5 15.5 16.5 17.0 18.5 19.5 18.0 17.5
1 2 3 4 5 6 7 8 9 10		FEBRUARY		5.5 5.5 8.0 7.5 4.5 5.0 7.0 9.0 11.0 11.5	2.5 3.0 5.5 4.5 3.0 2.5 3.5 5.5 7.5 8.5	4.0 4.5 7.0 6.0 3.5 3.5 5.5 7.5 9.5 10.0	13.0 13.0 15.5 13.0 11.5 10.0 10.5 12.0 14.5 17.0	APRIL 11.5 10.5 12.0 11.0 9.5 8.0 7.0 8.0 11.0 13.5 13.5	12.0 12.0 13.5 12.0 10.5 9.0 8.5 10.0 13.0 15.0	16.5 17.0 17.0 16.5 17.5 18.5 20.0 20.5 19.5 19.0	MAY 13.5 15.5 16.0 14.0 15.0 16.0 17.0 18.5 16.5 16.5 16.5 17.0 17.5	15.0 16.5 16.5 15.5 16.5 17.0 18.5 19.5 18.0 17.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14		FEBRUARY		5.5 5.5 8.0 7.5 4.5 5.0 7.0 9.0 9.1 11.5 8.5 7.5 7.5 10.5	2.5 3.0 5.5 4.5 3.0 2.5 3.5 5.5 7.5 8.5	4.0 4.5 7.0 6.0 3.5 5.5 5.5 9.5 10.0 7.5 6.5 9.0	13.0 13.0 15.5 13.0 11.5 10.0 10.5 12.0 14.5 17.0 15.5 16.5	APRIL 11.5 10.5 12.0 11.0 9.5 8.0 7.0 8.0 11.0 13.5 13.5 13.5 13.5	12.0 12.0 13.5 12.0 10.5 9.0 8.5 10.0 13.0 15.0 15.5 14.5 17.0	16.5 17.0 17.0 16.5 17.5 18.5 20.0 20.5 19.5 19.0	MAY 13.5 15.5 16.0 14.0 15.0 16.0 17.0 18.5 16.5 16.5 16.5 18.5 18.5	15.0 16.5 16.5 15.5 16.5 17.0 18.5 19.5 18.0 17.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY		5.5 5.5 8.0 7.5 4.5 5.0 7.0 9.0 11.5 7.5 7.5 7.5 10.5	2.5 3.0 5.5 4.5 3.0 2.5 3.5 5.5 7.5 8.5 6.0 9.5	4.0 4.5 7.0 6.0 3.5 3.5 5.5 7.5 9.5 10.0 7.5 6.5 7.0 9.0 11.5	13.0 13.0 15.5 13.0 11.5 10.0 10.5 12.0 14.5 17.0 17.0 15.5 16.5 18.5 21.0	APRIL 11.5 10.5 12.0 11.0 9.5 8.0 7.0 8.0 11.0 13.5 13.5 13.5 13.0 15.5	12.0 12.0 13.5 12.0 10.5 9.0 8.5 10.0 13.0 15.0 15.5 14.0 14.5 17.0	16.5 17.0 17.0 16.5 17.5 18.5 20.0 20.5 19.5 19.0 19.5 20.0 19.5 19.5	MAY 13.5 15.5 16.0 14.0 15.0 16.0 17.0 18.5 16.5 16.5 16.5 17.5 18.5 15.5	15.0 16.5 16.5 15.5 16.5 17.0 18.5 19.5 18.0 17.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY		5.5 5.5 8.0 7.5 4.5 5.0 7.0 9.0 9.0 11.0 11.5 7.5 7.5 7.5 7.5 7.5	2.5 3.0 5.5 4.5 3.0 2.5 3.5 5.5 7.5 8.5 6.0 5.5 7.0 9.5	4.0 4.5 7.0 6.0 3.5 5.5 9.5 10.0 7.5 6.5 9.0 11.5	13.0 13.0 15.5 13.0 11.5 10.0 10.5 12.0 14.5 17.0 17.0 15.5 18.5 21.0	APRIL 11.5 10.5 12.0 11.0 9.5 8.0 7.0 8.0 11.0 13.5 13.5 13.5 13.5 13.5 13.5 13.5	12.0 12.0 13.5 12.0 10.5 9.0 8.5 10.0 13.0 15.0 15.5 14.5 17.0 19.5	16.5 17.0 17.0 16.5 17.5 18.5 20.0 20.5 19.5 19.0 19.5 20.0 19.5 19.5	MAY 13.5 15.5 16.0 14.0 15.0 16.0 17.0 18.5 16.5 16.5 16.5 15.5 14.5	15.0 16.5 16.5 15.5 16.5 17.0 18.5 19.5 18.0 17.5 18.5 19.0 15.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		FEBRUARY		5.5 5.5 8.0 7.5 4.5 5.0 7.0 9.0 11.5 7.5 7.5 10.5 13.0 14.0 12.0 8.0	2.5 3.0 5.5 4.5 3.0 2.5 3.5 5.5 7.5 8.5 6.0 9.5 12.0 8.0 7.0	4.0 4.5 7.0 6.0 3.5 3.5 5.5 7.5 9.5 10.0 7.5 6.5 7.0 9.0 11.5	13.0 13.0 15.5 13.0 11.5 10.0 10.5 12.0 14.5 17.0 17.0 15.5 18.5 21.0 23.0 24.5 25.0	APRIL 11.5 10.5 12.0 11.0 9.5 8.0 7.0 8.0 11.0 13.5 13.5 13.5 13.0 15.5 18.0	12.0 12.0 13.5 12.0 10.5 9.0 8.5 10.0 13.0 15.0 14.5 17.0 14.5 17.0 19.5	16.5 17.0 17.0 16.5 17.5 18.5 20.0 20.5 19.5 19.0 19.5 19.5 17.0	13.5 15.5 16.0 14.0 15.0 16.0 17.0 18.5 16.5 16.5 16.5 17.5 14.5	15.0 16.5 16.5 15.5 16.5 17.0 18.5 19.5 18.0 17.5 18.5 19.0 17.0 15.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY		5.5 5.5 8.0 7.5 4.5 5.0 7.0 9.0 11.0 11.5 8.5 7.5 7.5 10.5 13.0	2.5 3.0 5.5 4.5 3.0 2.5 3.5 5.5 7.5 8.5 6.0 9.5	4.0 4.5 7.0 6.0 3.5 5.5 7.5 9.5 10.0 7.5 6.5 7.0 9.5	13.0 13.0 15.5 13.0 11.5 10.0 10.5 12.0 14.5 17.0 17.0 15.5 16.5 18.5 21.0	APRIL 11.5 10.5 12.0 11.0 9.5 8.0 7.0 8.0 11.0 13.5 13.5 13.5 13.5 13.0 15.5 18.0	12.0 12.0 13.5 12.0 10.5 9.0 8.5 10.0 13.0 15.0 14.5 17.0 14.5 17.0 19.5	16.5 17.0 17.0 16.5 17.5 18.5 20.0 20.5 19.5 19.0	MAY 13.5 15.5 16.0 14.0 15.0 16.0 17.0 18.5 16.5 16.5 14.5 15.5 14.5	15.0 16.5 16.5 15.5 16.5 17.0 18.5 19.5 18.0 17.5 18.5 19.0 17.0 15.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		FEBRUARY		5.5 5.5 8.0 7.5 4.5 5.0 7.0 9.0 11.0 11.5 8.5 7.5 7.5 10.5 13.0 14.0 8.0 8.0 8.0	MARCH 2.5 3.0 5.5 4.5 3.0 2.5 3.5 5.5 7.5 8.5 6.0 5.5 7.0 9.5 12.0 8.0 7.0 7.0 6.5	4.0 4.5 7.0 6.0 3.5 5.5 5.5 9.5 10.0 7.5 6.5 9.0 11.5 13.0 9.5 7.5 7.5 8.0	13.0 13.0 15.5 13.0 11.5 10.0 10.5 12.0 14.5 17.0 17.0 15.5 18.5 21.0 23.0 24.5 25.0 23.5	APRIL 11.5 10.5 12.0 11.0 9.5 8.0 7.0 8.0 11.0 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5	12.0 12.0 13.5 12.0 10.5 9.0 8.5 10.0 13.0 15.0 14.5 17.0 19.5 21.0 22.5 23.5 22.0	16.5 17.0 17.0 16.5 17.5 18.5 20.0 20.5 19.5 19.0 19.5 20.0 19.5 17.0	13.5 15.5 16.0 14.0 15.0 16.0 17.0 18.5 16.5 16.5 16.5 17.5 18.5 14.5 15.5 14.5	15.0 16.5 16.5 15.5 16.5 17.0 18.5 19.5 18.0 17.5 18.5 19.0 17.0 15.5 16.5 18.5 13.5
1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		FEBRUARY		5.5 5.5 5.5 8.0 7.5 4.5 5.0 9.00 11.0 11.5 8.5 7.5 7.5 10.5 13.0 8.0 8.0 8.0 8.0 8.0 8.7	MARCH 2.5 3.0 5.5 4.5 3.0 2.5 3.5 5.5 6.0 5.5 6.0 7.0 9.5 12.0 8.0 7.0 7.0 6.5 5.5 4.5	4.0 4.5 7.0 6.0 3.5 3.5 5.5 7.5 9.5 10.0 7.5 7.0 9.5 7.0 7.5 7.5 8.0 7.0 7.5	13.0 13.0 15.5 13.0 11.5 10.0 10.5 12.0 14.5 17.0 17.0 15.5 16.5 21.0 23.0 24.5 25.0 23.5	APRIL 11.5 10.5 12.0 11.0 9.5 8.0 7.0 8.0 11.0 13.5 13.5 13.5 13.5 13.5 13.5 13.0 15.5 18.0 19.5 20.5 21.5 20.5	12.0 12.0 13.5 12.0 10.5 9.0 8.5 10.0 13.0 15.0 14.5 17.0 19.5 21.0 22.5 23.5 23.0 22.0	16.5 17.0 17.0 16.5 17.5 18.5 20.0 20.5 19.5 19.5 19.5 17.0 18.0 20.0 19.5 14.5 14.0	MAY 13.5 15.5 16.0 14.0 15.0 16.0 17.0 18.5 16.5 16.5 16.5 17.5 18.5 12.5 12.0 12.0 14.0	15.0 16.5 16.5 15.5 16.5 17.0 18.5 19.5 18.0 17.5 18.5 19.0 17.0 15.5 16.0 13.5 13.5 13.5 15.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		FEBRUARY		5.5 5.5 8.0 7.5 4.5 5.0 7.0 9.0 11.0 11.5 8.5 7.5 7.5 10.5 13.0 14.0 8.0 8.0 8.0 8.0	2.5 3.0 5.5 4.5 3.0 2.5 3.5 5.5 7.5 8.5 6.0 5.5 6.5 7.0 9.5	4.0 4.5 7.0 6.0 3.5 3.5 5.5 9.5 10.0 7.5 6.5 7.0 9.5 7.0 7.5 7.0 7.5	13.0 13.0 15.5 13.0 11.5 10.0 10.5 12.0 14.5 17.0 17.0 15.5 16.5 18.5 21.0 23.0 24.5 25.0 23.5	APRIL 11.5 10.5 12.0 11.0 9.5 8.0 7.0 8.0 11.0 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.0 15.5 18.0	12.0 12.0 12.0 10.5 10.5 9.0 8.5 10.0 13.0 15.0 14.0 14.0 14.0 17.0 19.5 21.0 22.5 23.5 22.0 18.0 15.0	16.5 17.0 17.0 16.5 17.5 18.5 20.0 20.5 19.5 19.0 19.5 19.5 19.5 19.5 19.5 19.5 14.0	MAY 13.5 15.5 16.0 14.0 15.0 16.0 17.0 18.5 16.5 16.5 16.5 16.5 15.5 14.5 15.5 14.5	15.0 16.5 16.5 15.5 16.5 17.0 18.5 19.5 18.0 17.5 18.5 19.0 17.0 15.5 16.0 13.5 13.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26		FEBRUARY		5.5 5.5 8.0 7.5 4.5 5.0 7.0 9.0 11.0 11.5 7.5 7.5 7.5 10.5 13.0 8.0 8.0 8.0 8.0 8.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7	MARCH 2.5 3.0 5.5 4.5 3.0 2.5 3.5 5.5 7.5 8.5 6.0 5.5 7.0 9.5 12.0 8.0 7.0 7.0 6.5 5.5 4.5 6.0 7.0 7.0	4.0 4.5 7.0 6.0 3.5 5.5 5.5 9.5 10.0 7.5 6.5 7.0 9.0 11.5 13.0 9.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7	13.0 13.0 15.5 13.0 11.5 10.0 10.5 12.0 14.5 17.0 17.0 15.5 18.5 21.0 23.0 24.5 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	APRIL 11.5 10.5 12.0 11.0 9.5 8.0 7.0 8.0 11.0 13.5 13.5 13.5 13.5 13.5 13.5 14.0 19.5 20.5 21.5 20.5 16.0 14.0 12.0 12.5 10.5	12.0 12.0 13.5 12.0 10.5 9.0 8.5 10.0 13.0 15.0 14.5 17.0 19.5 21.0 22.5 23.5 23.0 22.0 18.0 13.0 13.0	16.5 17.0 17.0 16.5 17.5 18.5 20.0 20.5 19.5 19.0 19.5 19.5 17.0 18.0 20.0 19.5 14.5 14.0	MAY 13.5 15.5 16.0 14.0 15.0 16.0 17.0 18.5 16.5 16.5 16.5 16.5 12.5 12.0 12.5 12.0 12.0 14.0 15.5 18.5	15.0 16.5 16.5 15.5 16.5 17.0 18.5 19.0 17.5 18.5 19.0 17.0 15.5 16.5 13.5 13.5 13.5 13.5 13.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27		FEBRUARY		5.5 5.5 8.0 7.5 4.5 5.0 7.0 9.0 11.0 11.5 7.5 7.5 10.5 13.0 8.0 8.0 8.0 8.5 7.5 7.5 13.0	MARCH 2.5 3.0 5.5 4.5 3.0 2.5 5.5 7.5 8.5 6.0 5.5 6.0 7.0 7.0 7.0 6.5 5.5 4.5 6.0 7.0 7.0 7.0 7.0	4.0 4.5 7.0 6.0 3.5 5.5 7.5 9.5 10.0 7.5 6.5 7.0 9.5 7.5 7.5 9.5 7.5 7.5 7.5 7.5	13.0 13.0 13.0 15.5 13.0 11.5 10.0 10.5 12.0 14.5 17.0 17.0 15.5 16.5 21.0 23.0 24.5 25.0 23.5 25.0 23.5	APRIL 11.5 10.5 12.0 11.0 9.5 8.0 7.0 8.0 11.0 13.5 13.5 13.5 13.5 13.5 13.0 15.5 18.0 19.5 20.5 21.5 20.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21	12.0 12.0 12.0 10.5 9.0 8.5 10.0 13.0 15.0 15.5 14.0 19.5 21.0 22.5 23.0 22.0 18.0 15.0 15.0 15.0	16.5 17.0 17.0 16.5 17.5 18.5 20.0 20.5 19.5 19.0 19.5 19.5 17.0 18.0 20.0 19.0 14.5 14.0	MAY 13.5 15.5 16.0 14.0 15.0 16.0 17.0 18.5 16.5 16.5 16.5 17.5 18.5 14.5 15.6 17.5 14.5 15.6 17.5 14.5 15.8 14.5 15.8 14.5 15.8 14.5 15.8 14.5 15.8 14.5 15.8 14.5 15.8 14.8 15.8 16.8	15.0 16.5 16.5 15.5 16.5 17.0 18.5 19.0 17.5 18.5 19.0 15.5 16.0 13.5 13.5 13.5 13.5 17.5 19.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29		FEBRUARY		5.5 5.5 8.0 7.5 4.5 5.0 7.0 9.0 11.0 11.5 8.5 7.5 7.5 10.5 13.0 8.0 8.0 8.0 8.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7	MARCH 2.5 3.0 5.5 4.5 3.0 2.5 5.5 7.5 8.5 6.0 5.5 7.0 9.5 12.0 8.0 7.0 7.0 6.5 5.5 6.0 7.0 6.5 8.5	4.0 4.5 7.0 6.0 3.5 5.5 5.5 9.5 10.0 7.5 7.0 9.0 11.5 13.0 9.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7	13.0 13.0 15.5 13.0 11.5 10.0 10.5 12.0 14.5 17.0 17.0 15.5 18.5 21.0 23.0 24.5 25.0 25.0 25.0 25.0 25.0 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5	APRIL 11.5 10.5 12.0 11.0 9.5 8.0 7.0 8.0 11.0 13.5 13.5 13.5 13.5 13.5 13.0 15.5 14.0 19.5 20.5 21.5 20.5 16.0 14.0 12.0 12.0 12.5 13.5 13.5	12.0 12.0 13.5 12.0 10.5 9.0 8.5 10.0 13.0 15.0 14.5 17.0 19.5 21.0 22.5 23.5 23.0 22.0 18.0 13.5 14.0 13.5 14.0	16.5 17.0 17.0 16.5 17.5 18.5 20.0 20.5 19.5 19.0 19.5 19.5 17.0 18.0 20.0 19.5 14.5 14.0 13.5 15.5 17.0 20.0 20.0 21.0	13.5 15.5 16.0 14.0 15.0 16.0 17.0 18.5 16.5 16.5 16.5 12.5 12.5 12.5 12.5 12.5 12.0 12.0 12.0 12.0 13.5 18.5 18.5 18.5 19.0	15.0 16.5 16.5 15.5 16.5 17.0 18.5 18.0 17.5 18.5 19.0 17.0 15.5 16.5 13.5 13.5 13.5 13.5 13.5 19.0 13.5 19.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28		FEBRUARY		5.5 5.5 8.0 7.5 4.5 5.0 7.0 9.0 11.0 11.5 8.5 7.5 10.5 13.0 8.0 8.0 8.0 8.0 8.0 7.0 7.5 8.5 7.5 9.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8	MARCH 2.5 3.0 5.5 4.5 3.0 2.5 3.5 5.5 7.5 8.5 6.0 7.0 7.0 6.5 5.5 6.0 7.0 7.0 6.5 5.5 6.0 7.0 7.0 6.5 5.5 6.0	4.0 4.5 7.0 6.0 3.5 3.5 5.5 7.5 9.5 10.0 7.5 7.0 7.5 7.0 7.5 7.0 7.5 7.5 8.0 7.5 7.5 8.0	13.0 13.0 13.0 11.5 10.0 10.5 12.0 14.5 17.0 17.0 23.0 24.5 25.0 23.5 25.0 25.0 25.0 14.5 15.5 16.5 16.5	APRIL 11.5 10.5 12.0 11.0 9.5 8.0 7.0 8.0 11.0 13.5 13.5 13.5 13.5 13.5 13.0 15.5 21.5 20.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21	12.0 12.0 12.0 10.5 9.0 8.5 10.0 13.0 15.0 15.5 14.0 14.5 22.5 23.5 22.0 18.0 15.0 13.5 14.0 19.5	16.5 17.0 17.0 16.5 17.5 18.5 20.0 20.5 19.5 19.0 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	MAY 13.5 15.5 16.0 14.0 15.0 16.0 17.0 18.5 16.5 16.5 14.5 17.5 14.5 15.5 14.5 15.6 17.5 14.5 15.8 15.5 14.5 15.8 15.5 14.5 15.8 15.5 14.5	15.0 16.5 16.5 15.5 16.5 17.0 18.5 19.0 17.5 18.5 19.0 13.5 16.0 13.5 13.5 17.5 19.0 19.5

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	ER.
1 2 3 4 5	25.5 24.5 24.0 22.5 23.5	22.5 22.0 21.0 20.5 20.5	24.0 23.5 22.5 21.5 22.0	27.5 28.5 30.5 31.0 30.5	24.5 25.5 27.0 28.0 27.0	26.0 27.0 28.0 29.0 29.0	30.5 31.0 31.0 28.5 28.0	26.0 26.0 26.5 26.5 26.0	28.0 28.0 28.5 27.5 27.0	20.5 20.5 23.5 25.5 25.5	20.0 19.0 20.0 22.0 22.5	20.0 20.0 21.5 23.5 23.5
6 7 8 9 10	25.0 22.5 21.0 22.0 23.5	22.5 19.5 18.5 19.0 20.0	23.5 20.0 19.5 20.5 22.0	28.0 26.0 26.5 27.5 28.0	25.0 23.5 23.0 24.0 25.5	26.5 24.5 24.5 25.5 26.0	28.5 27.0 26.5 27.0 27.5	25.0 23.0 22.0 21.0 22.0	26.5 25.0 24.0 24.0 24.5	25.0 25.0 25.0	21.5 20.5 20.5 	23.0 22.5 22.5
11 12 13 14 15	25.0 25.5 25.0 22.0 18.5	21.0 23.0 22.0 18.5 18.0	23.0 24.5 23.5 20.0 18.5	27.0 26.5 25.5 24.0 26.0	23.5 22.5 22.5 23.0 22.5	25.0 24.0 23.5 23.0 24.0	28.0 28.5 29.5 29.5 29.5	22.5 23.5 25.0 25.5 26.0	25.0 26.0 27.0 27.5 28.0	25.0 23.5 23.0 23.0 23.0	22.0 19.5 18.5 19.5 21.5	23.0 21.5 21.0 21.0 22.0
16 17 18 19 20	20.5 21.5 23.0 23.5 23.5	17.5 19.0 19.5 20.5 20.5	19.0 20.5 21.0 21.5 22.0	27.5 28.0 28.5 29.5 29.5	24.0 24.0 25.0 26.0 26.0	25.0 25.5 26.5 27.5 27.0	29.5 29.5 30.0 30.0 29.0	27.0 26.5 26.5 27.0 27.0	28.5 28.0 28.5 28.5 28.0	24.0 24.5 24.0 24.0 24.5	22.0 22.0 21.0 20.0 20.5	23.0 23.0 22.5 22.0 22.5
21 22 23 24 25	24.5 25.5 26.0 26.5 27.5	21.0 21.5 22.5 23.5 24.5	23.0 23.5 24.0 25.0 26.0	29.5 29.5 30.5 27.5 27.5	26.0 25.5 26.5 26.0 24.5	27.5 27.5 28.0 27.0 26.0	28.5 27.5 27.0 26.5 26.0	25.0 24.5 25.5 25.0 24.0	27.0 26.0 26.5 25.5 25.0	25.0 25.5 24.5 23.0 21.5	21.0 22.5 22.0 19.5 19.5	23.0 23.5 23.5 21.5 20.5
26 27 28 29 30 31	28.5 29.0 27.5 27.0 27.5	25.5 26.5 25.5 24.0 24.5	27.0 27.5 26.5 25.5 26.0	25.0 24.5 27.0 29.0 30.0 30.5	23.5 23.0 23.0 25.0 26.5 26.0	24.5 23.5 24.5 26.5 28.0 28.0	26.0 26.5 24.5 22.5 20.0 22.5	23.5 23.0 22.5 19.5 19.5	24.5 24.5 24.0 21.0 19.5 20.5	20.0 18.5 20.0 20.0 20.0	18.5 17.5 18.5 18.0 17.5	19.5 18.0 19.5 19.0 19.0
MONTH	29.0	17.5	22.9	31.0	22.5	26.1	31.0	19.0	25.9	25.5	17.5	21.6

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER	!		NOVEMBER	t		DECEMBER			JANUARY	
1 2 3 4 5	10.4 11.0 11.2 11.5 12.1	9.1 9.2 9.1 8.8 8.6	9.6 9.9 9.9 9.8 9.9	13.3 12.0 12.4 12.5	10.2 8.5 8.6 9.0	11.3 9.7 10 10.4	10.7 11.3 	8.4 8.8 	9.2 9.8 	 	 	
6 7 8 9 10	11.6 12.2 12.8 13.1 13.4	8.3 8.8 9.7 10.5	9.6 10.2 10.8 11.4 11.6	13.1 14.0 14.2 14.0 14.1	9.8 10.3 10.6 10.3 10.5	11.0 11.7 11.9 11.7			 		 	
11 12 13 14 15	13.1 12.8 11.9 11.3 9.7	10.4 9.6 9.0 8.1 7.6	11.3 10.8 10.1 9.3 8.5	13.9 14.2 14.7 14.8 14.9	10.6 11.2 11.7 11.9 11.5	11.8 12.3 12.8 13.0 12.8	 	 	 	 	 	
16 17 18 19 20	10.0 10.2 10.9 11.9	7.5 8.0 8.6 9.2 9.5	8.5 8.9 9.5 10.2 10.4	14.4 14.0 13.8	11.1 10.4 10.4 	12.3 11.8 11.8 	 			 		
21 22 23 24 25	11.7 11.6 11.5 11.0	9.3 8.8 8.3 8.0 7.2	10.2 9.8 9.4 8.9 8.3	13.4 13.3 13.2 12.1	10.3 10.9 10.8 9.5	11.6 11.9 11.7 10.7			 		 	
26 27 28 29 30 31	10.6 11.0 12.1 12.4 13.0 12.9	7.4 8.3 9.2 10.0 10.4 10.3	8.6 9.3 10.3 11.0 11.3 11.2	9.6 10.5 11.2 10.0 10.1	8.8 9.0 8.9 8.6 8.5	9.2 9.6 9.7 9.1 9.0	 			 	 	
MONTH	13.4	7.2	10.0	14.9	8.5	11.2						

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5				14.6 14.6 12.3 11.9 13.2	12.3 12.3 10.5 10.5 11.6	13.3 13.2 11.0 11.2 12.4	11.8 12.5 12.1 12.8 13.3	9.4 9.7 9.4 9.2 10.1	10.3 10.9 10.4 10.9 11.6	11.1 9.6 8.4 9.5 9.7	8.5 7.9 7.8 8.2 8.3	9.5 8.6 8.2 8.8 8.8
6 7 8 9 10		 	 	13.5 13.2 12.7 12.0 11.5	12.3 11.5 10.9 9.9 9.5	12.8 12.4 11.7 10.9 10.4	13.7 14.3 14.2 13.2 12.9	10.8 11.1 11.0 9.9 8.8	12.3 12.6 12.4 11.3 10.6	9.6 9.4 9.4 8.0 9.7	7.9 7.6 7.2 7.1 8.0	8.6 8.4 7.9 7.6 8.7
11 12 13 14 15	 	 	 	12.6 12.7 11.6 11.9 11.4	10.4 11.0 10.6 10.3 9.5	11.4 11.6 11.1 11.0 10.5	12.8 11.2 12.5 12.1 10.9	8.7 8.8 8.9 8.2 7.7	10.6 10 10.5 9.9 9.1	9.8 9.8 8.4 8.9 9.4	7.9 7.9 7.7 7.7 8.7	8.7 8.5 8.0 8.4 9.0
16 17 18 19 20		 	 	10.6 10.5 11.6 12.1 11.2	9.0 9.1 10.3 11.0 10.7	9.6 9.9 11.0 11.4 10.9	11.4 11.2 10.7 10.2 8.5	6.9 6.5 6.0 5.8 5.8	8.8 8.4 7.8 7.4 6.9	9.9 9.3 9.5 10.1 10.5	8.6 8.1 7.9 9.5 9.5	9.1 8.6 8.7 9.8 10.0
21 22 23 24 25	 	 	 	11.2 11.8 12.6 12.4 12.3	10.4 10.4 11.4 11.4	10.9 11.2 11.9 11.9	8.3 9.8 11.0 11.7 10.2	6.3 7.4 8.7 9.1 8.8	7.2 8.4 9.7 10.2 9.2	11.0 11.3 11.2 11.3 11.5	9.9 9.9 9.5 8.9	10.3 10.4 10.2 9.9 9.7
26 27 28 29 30 31	14.1 	 11.4 	12.6 	11.4 11.2 12.1 11.9 11.5	10.8 10.8 10.8 10.4 9.8 9.2	11.1 11.0 11.3 11.1 10.5	12.1 12.5 9.7 9.5 11.1	9.1 9.3 8.7 8.5 8.9	10.5 10.7 9.0 9.0 9.7	12.0 11.6 12.2 13.0 12.3 12.6	8.0 8.1 8.1 7.9 7.4 6.8	9.5 9.8 10 10.1 9.6 9.3
MONTH				14.6	9.0	11.3	14.3	5.8	9.9	13.0	6.8	9.1
DAV	MAX	MTN	MEAN	MAX	MTN	MEAN	MAX	MTN	MEAN	MAX	MTN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMBE	MEAN R
DAY 1 2 3 4 5	MAX 11.9 11.8 10.6 10.8 11.0		MEAN 8.8 8.6 8.3 8.5 8.6	MAX 9.7 9.8 9.7 9.5 9.4		7.4 7.3 7.0 6.6 6.5	MAX 9.3 9.1 9.5 8.2 7.7		MEAN 6.6 6.4 6.4 6.6 6.1			
1 2 3 4	11.9 11.8 10.6 10.8	JUNE 6.3 6.2 6.4 6.6	8.8 8.6 8.3 8.5	9.7 9.8 9.7 9.5	JULY 5.9 5.8 5.4 5.0	7.4 7.3 7.0 6.6	9.3 9.1 9.5 8.2	4.7 4.5 4.1 4.6	6.6 6.4 6.4 6.6	9.1 9.5 10.5 10.4	7.7 8.2 7.4 6.7	8.2 8.8 8.9 8.1
1 2 3 4 5 6 7 8 9	11.9 11.8 10.6 10.8 11.0 10.0 7.5 7.4 7.8	JUNE 6.3 6.2 6.4 6.6 6.8 6.3 6.2 6.8 6.7	8.8 8.6 8.3 8.5 8.6 7.5 7.0 7.2 7.2	9.7 9.8 9.7 9.5 9.4 9.9	5.9 5.8 5.4 5.0 4.9 5.2 5.6 6.0	7.4 7.3 7.0 6.6 6.5 6.9 7.3 7.8 7.4	9.3 9.1 9.5 8.2 7.7 9.7 9.8 10.2	4.7 4.5 4.1 4.6 4.9 4.6 5.4 5.9	6.6 6.4 6.4 6.6 6.1 6.5 7.3 7.7 8.1	9.1 9.5 10.5 10.4 10.2	7.7 8.2 7.4 6.7 6.5 6.4 6.5	8.2 8.8 8.9 8.1 7.9 7.9 8.1 8.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14	11.9 11.8 10.6 10.8 11.0 10.0 7.5 7.4 7.8 8.4 8.3 8.0 7.4 7.8	JUNE 6.3 6.2 6.4 6.6 6.8 6.3 6.2 6.6 6.3 6.7 6.6	8.8 8.6 8.3 8.5 8.6 7.5 7.0 7.2 7.2 7.3 7.4 7.0 6.6 7.3	9.7 9.8 9.7 9.5 9.4 9.9 10.0 9.7 9.9 10.2 9.4 8.9	5.9 5.8 5.4 5.0 4.9 5.2 5.6 6.0 5.6 5.7 5.8	7.4 7.3 7.0 6.6 6.5 6.9 7.3 7.4 7.1 7.2 7.4 7.4	9.3 9.1 9.5 8.2 7.7 9.7 9.8 10.2 10.7 10.9	4.7 4.5 4.1 4.6 4.9 4.6 5.4 5.8 5.9 6.1 6.1 5.9 5.8	6.6 6.4 6.6 6.1 6.5 7.3 7.7 8.3 8.4 8.4 8.5	9.1 9.5 10.5 10.4 10.2 10.6 11.0 11.1 11.2 11.6 11.7 11.6	7.7 8.2 7.4 6.7 6.5 6.4 6.4 6.5 5.9 6.1 6.0	8.2 8.8 8.9 8.1 7.9 7.9 8.1 8.3 8.0 8.3 8.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	11.9 11.8 10.6 10.8 11.0 10.0 7.5 7.4 7.8 8.4 8.3 8.0 7.4 7.8 8.5 9.0 9.3 9.4	JUNE 6.3 6.2 6.4 6.6 6.8 6.3 6.2 6.6 6.3 6.7 7.7 7.9 7.6 7.5	8.8 8.6 8.3 8.5 8.6 7.5 7.0 7.2 7.2 7.3 7.4 7.0 6.6 7.3 8.0 8.4 8.2 8.3 8.2	9.7 9.8 9.7 9.5 9.4 9.9 10.0 9.7 9.9 10.2 9.4 8.9 10.4	JULY 5.9 5.4 5.0 4.9 5.2 5.6 6.0 6.0 5.6 5.7 5.8 5.9 6.0 5.7 5.7	7.4 7.3 7.0 6.6 6.5 7.3 7.4 7.1 7.2 7.4 7.0 7.5 7.6 7.5	9.3 9.1 9.5 8.2 7.7 9.7 9.8 10.2 10.7 10.9 11.4 11.9 11.0	4.7 4.5 4.1 4.6 4.9 4.6 5.4 5.9 6.1 6.1 5.8 5.9 6.1 4.6 4.9	6.64 6.46 6.61 6.53 7.37 8.13 8.44 8.57.8 7.22 7.22	9.1 9.5 10.5 10.4 10.2 10.6 11.0 11.1 11.2 11.6 11.7 11.6 10.5	7.7 8.2 7.7 6.5 6.4 6.4 6.5 5.9 6.1 6.0 5.8 5.8 6.4 6.3	8.2 8.8 8.9 8.1 7.9 7.9 8.1 8.3 8.0 8.3 8.5 7.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	11.9 11.8 10.6 10.8 11.0 10.0 7.5 7.4 7.8 8.4 8.3 8.0 7.8 8.5 9.0 9.3 9.4 9.4 9.4	JUNE 6.3 6.2 6.4 6.6 6.8 6.3 6.2 6.6 6.6 6.3 6.7 7.7 7.9 7.6 7.5 7.1 6.5 7.1 6.5	8.8 8.6 8.3 8.5 8.6 7.5 7.0 7.2 7.2 7.3 7.4 7.0 6.6 7.3 8.0 8.4 8.2 8.3 8.2 8.3 8.2 8.3	9.7 9.8 9.7 9.5 9.4 9.9 10.0 9.7 9.9 10.2 9.4 8.9 10.4 10.1 10.1 10.1 10.2	JULY 5.9 5.4 5.0 4.9 5.2 5.6 6.0 6.0 5.6 5.7 5.8 5.9 6.7 5.6 6.3 5.7 5.6 6.3 5.4 9	7.4 7.3 6.6 6.5 6.9 7.3 7.4 7.1 7.2 7.4 7.0 7.5 7.6 7.6 7.6 7.5 7.6 7.8 8.1 7.4	9.3 9.1 9.5 8.2 7.7 9.7 9.8 10.2 10.7 10.9 11.4 11.9 11.0 10.6 9.8 10.2 10.5	4.7 4.5 4.1 4.6 4.9 4.6 5.8 5.9 6.1 6.1 5.8 5.6 4.9 4.6 4.6 4.5 4.3 4.3 4.3	6.64 6.64 6.61 6.53 7.37 8.13 8.44 8.58 7.22 7.21 7.63 6.8	9.1 9.5 10.5 10.4 10.2 10.6 11.0 11.1 11.2 11.6 11.7 11.6 10.5 9.9 11.0 11.9 12.6 12.6	7.7 8.2 7.7 6.5 6.4 6.4 6.5 5.9 6.1 6.0 5.8 6.3 6.3 6.3 6.1 5.8 5.8	8.2 8.8 8.9 8.1 7.9 7.9 8.1 8.3 8.0 8.3 8.5 7.8 7.5 7.9 8.4 8.7

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

CROSS-SECTION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM- PLING DEPTH (FEET) (00003)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	SAMPLE LOC- ATION CROSS SECTION (FT FM L BANK (00009
SEP								
27	1117	603	0					0
27	1118		1	8.6	7.6	307	17.1	0 3
27	1124		1	8.7	7.6	302	17.1	13
27	1126		1	8.8	7.6	301	17.1	23
27	1129		1	8.8	7.6	299	17.1	33
27	1133		1	8.9	7.6	298	17.1	43
27	1136		1	8.7	7.6	300	17.1	53
27	1138		1	8.9	7.6	296	17.1	63
27	1141		1	8.9	7.6	295	17.1	73
27	1143		1	8.8	7.6	296	17.1	83
27	1145	577	1	8.8	7.6	300	17.1	93